

Remediation Closure Report:

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Mariner Fee 23 28 19 WA #001H API # 30-015-44849 Talon Project # 702248.044.01

Prepared For:

Marathon Oil Permian LLC 4111 S. Tidwell Rd. Carlsbad, NM 88220

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, NM 88210

January 13, 2019

Mr. Mike Bratcher **NMOCD District 1** 1625 N. French Drive Hobbs, NM 88240

Subject:

Soil Assessment and Remediation Closure Report

Mariner Fee 23 28 19 WA #001H

Eddy County, New Mexico

API # 30-015-44849

Dear Mr. Bratcher:

Marathon Oil Permian LLC, (Marathon) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our site assessment and proposed remediation activities are contained herein.

Site Information

The Mariner Fee 23 28 19 WA #001H lies within Unit Letter O, Section 18, Township 23S, and Range 28E in Eddy County, New Mexico. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Gypsum land-Cottonwood Complex with a 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to Upper Pleistocene in age and is comprised of alluvium deposits. Drainage courses in this area are typically well drained.

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is approximately 78-feet below ground surface (BGS). See Appendix II for the referenced groundwater data.

Site Characterization

Pursuant to Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 of the New Mexico Administrative Code (NMAC), if a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater.

Approximate	e Depth to Groundwater	78 Feet/BGS
□Yes ⊠No	Within 300 feet of any continuous any other significant watercourse	,
□Yes ⊠No	Within 200 feet of any lakebed, si	nkhole or playa lake
□Yes ⊠No	Within 300 feet from an occupied school, hospital, institution or chu	•
□Yes ⊠No	Within 500 feet of a spring or private well used by less than five housel watering purposes	
□Yes ⊠No □Yes ⊠No	,	undaries or within a defined overed under a municipal
☐Yes ⊠No ☐Yes ⊠No ☐Yes ⊠No ☐Yes ⊠No	Within the area overlying a subsu Within an unstable area	rface mine

This release did not occur within any of these areas and the depth to groundwater is between 50-100 feet BGS. Therefore, the remediation closure criteria for this site will be as follows:

	Table Closure Criteria for Soils	· · ·	
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
50 feet-100 feet	Chloride	EPA 300.0 or SM4500 CI B	10000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Descriptions

On August 31, 2019, a wash out was discovered at a "45" on the main water line from the location's separator. This resulted in an approximate release of 150 bbls of produced water (The Initial C-141 is attached in (Appendix III). The New Mexico Oil Conservation Division (NMOCD) assigned this incident a remediation permit number of **2RP-5640**. A vacuum truck was dispatched and recovered 130 bbls of fluid. The disposal manifests are appended (Appendix IV).

On December 13, 2019, a second release occurred at the Mariner Fee 23 28 19 WA #001H. According to the C-141, the release was due to a union failure thought to be corrosion. This resulted in the release of approximately 26.5 bbls of crude oil into the lined containment of the tank battery with some overspray onto the pad. The NMOCD was notified via email on this same date. A vacuum truck was immediately dispatched and utilized to recover approximately 25 bbls of fluid. No fluids traversed outside the pad area. The NMOCD assigned this incident **T52M9-191216-C-1410**. (Appendix III).

Site Assessment

On November 18, 2019, Talon mobilized personnel to begin the site assessment and soil sampling activities for the submittal of a work plan. Utilizing mechanized Geoprobe soil boring techniques, soil samples were retrieved from fourteen designated sample positions as indicated on the site plan (Appendix I). All soil samples were properly packaged, preserved, and transported to Hall Environmental Laboratories for analyses of the following constituencies: Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (8015M), Volatile Organics (BTEX Method 8021B), and Benzene (EPA Method 8021B). Results from the sampling event are presented in the following data table. A complete laboratory report can be found in (Appendix VI).

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NMOCD Table	e 1 Closure	50					2500 mg/kg	Chlorides <10,000 ppm		
Criteria 19.15	.29 NMAC	mg/kg	To mg/kg	_ 1000	mg/kg		2000 mg/kg	Lab Results	Field Titration	
	2	NT	NT	NT	NT	NT	NT	2400		
B-1	4	NT	NT	NT	NT	NT	NT	63		
	6	ND	ND	ND	ND	ND	NT	300		
	0-1	NT	NT	NT	NT	NT	NT	NT	462	
B-2	2	ND	ND	ND	ND	ND	NT	550		
D-Z	3	NT	NT	NT	NT	NT	NT	280	317	
B-3	1	NT	NT	NT	NT	NT	NT	NT	462	
	0-1	ND	ND	ND	ND	ND	NT	1200		
B-4	3	NT	NT	NT	NT	NT	NT	230		
	6	NT	NT	NT	NT	NT	NT	190		
	0-1	ND	ND	ND	33	65	NT	1200		
B-5	2-3	NT	NT	NT	NT	NT	NT	1000		
	4	NT	NT	NT	NT	NT	NT	590		
B-6	1-2	ND	ND	ND	ND	ND	NT	880	725	
D-0	3	NT	NT	NT	NT	NT	NT	640		
	0-1	ND	ND	ND	ND	ND	NT	1800		
B-7	2	NT	NT	NT	NT	NT	NT	1300		
	3	NT	NT	NT	NT	NT	NT	300	338	
B-8	0-1	ND	ND	ND	ND	ND	NT	160	310	
B-9	0-1	ND	ND	ND	81	70	NT	2300		
B-10	0-1	ND	ND	ND	59	91	NT	420		
B-11	0-1	ND	ND	ND	11	ND	NT	360		
B-12	0-1	ND	ND	ND	ND	ND	NT	1400		
	0-1	NT	NT	NT	NT	NT	NT	2500		
B-13	2	NT	NT	NT	NT	NT	NT	2400		
	3	ND	ND	ND	ND	ND	NT	340		
	0-1	NT	NT	NT	NT	NT	NT	4300		
B-14	2	NT	NT	NT	NT	NT	NT	4700		
D-14	4	ND	ND	ND	ND	ND	NT	320		
	7	NT	NT	NT	NT	NT	NT	NT	214	

Initial Site Assessment Results

NT= Not Tested ND= Not Detected

Remedial Actions

On December 18, 2019 Talon personnel and equipment were mobilized to the Mariner Battery in order to commence remediation activities. Due to the number of underground utility lines present a hydrovac was utilized to identify the location and depths (1.5' to 3' deep) of the gas and electrical lines. Subsequently, the impacted area on location (2RP-5640) was excavated to depths of approximately 0.5'-1.0' feet bgs.

Based on the analytical data, an area measuring approximately 180' x 280' was excavated and is shown on the excavation site map (Appendix I).

On December 19, 2019, confirmation samples were collected from the bottom and side walls of the excavation at the locations shown on the attached excavation map. The soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody. The soil was analyzed for Total Chlorides (EPA Method 300.0), the analyte of concern. The results from this sampling event are presented in the following data table. The complete laboratory report is referenced in (Appendix VI).

тт (ларопаж ут).	Confirmation Samples Collection Date 12/19/2019							
Sample ID	Depth	Total Chlorides	Field Titration Data					
Š1	6"	1700						
S2	6"	2300						
S3	6"	94						
S4	6"	1000						
S5	6"	4200						
S6	6'	5000						
S7	6"	2200						
S8	6"	4800						
S9	6"	4700						
S10	6"	NT	470					
S11	6"	NT	520					
S12	6"	NT	1243					
S13	6"	1700						
S14	6"	2000						
S15	6"	8800						
S16	6"	2300						
S17	6"	2300						
S18	6"	3000						
S19	6"	1400						
S20	6"	1900						
S21	6"	4900						
S22	6"	8800						
S23*	6"	10000						
S24	6"	7000						
S25	6"	3900						
S26	6"	2600						
S27	6"	1900						
S28	6"	770						
S29	6"	180						
S30	6"	2900						
S31	6"	860						
S32	6"	1700						
S33	6"	1400						

^{*}Soil stockpile location. See site assessment results sample location B-14. NT=Not Tested

On December 20, 2019, the second release on this location was addressed (**T52M9-191216-C-1410**). Overspray from this incident only impacted the location immediately north of the battery between the generators at sample location B-3 (see Site Plan). The generators were temporarily relocated and the area was hydro-excavated and hand-excavated to a depth of approximately 2.5 to 3.0-feet deep as practicable as possible due to the presence of flow lines running between the separators and the gas wells on location, and due to safety concerns for onsite personnel. This area was sampled (sample location B-3A), prior to commencement of remediation activities in this area. Analytical data obtained from this sample event is presented in the following data table and the complete lab report is attached (Appendix VI).

	Second Release Collection Date 12/18/2019							
Sample Position	Depth	Benzene	BTEX	Chloride	GRO	DRO	MRO	Total TPH
B-3A	1'	ND	ND	5030	ND	ND	ND	ND
B-3A	2'	ND	ND	4040	ND	ND	ND	ND
B-3A	3'	NT	NT	3490	NT	NT	NT	NT
B-3A	4'	NT	NT	1110	NT	NT	NT	NT

ND = Not Detected NT = Not Tested

Remediation Summary

- Based upon the results of our initial site assessment, the impacted areas on location were excavated to a depth of approximately 0.5 to 1.0-feet deep in order to remove the visual impacts from the release (2RP-5640). This area was initially scraped by others as a component of initial remedial actions carried out for this release.
- Confirmation samples were collected from the bottom and sidewalls of the excavation.
- On December 13, 2019, a second release (crude oil) occurred from a union failure within the lined battery. Overspray from this incident impacted approximately 25' x 25' of the location where shown on the site plan. This area was sampled and remediated to a depth of 2.5 to 3.0-feet deep utilizing hand tools and a hydro-excavator. Based on the analytical results, the hydrocarbon impacts appear to have been contained within the upper foot of the impacted area. This area was backfilled by hand with new caliche.
- The location excavation was backfilled with new caliche and compacted with a single drum vibratory roller. A layer of base coarse was added and the work area was compacted again.
- The impacted soil from this location (approximately 486 yards) was transported to R360, a NMOCD approved solid waste disposal facility.

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Closure

Page

On behalf of Marathon Oil Permian LLC, we respectfully request that no further actions be required and that closure with regard to these incidents be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE

Rebecca Pons

Project Manager

David J. Adkins District Manager

Attachments:

Appendix I Site Maps

Appendix II Soil Survey, Groundwater Data & FEMA Flood Map

Appendix III Initial C-141

Appendix IV Disposal Manifests Appendix V Photo Documentation

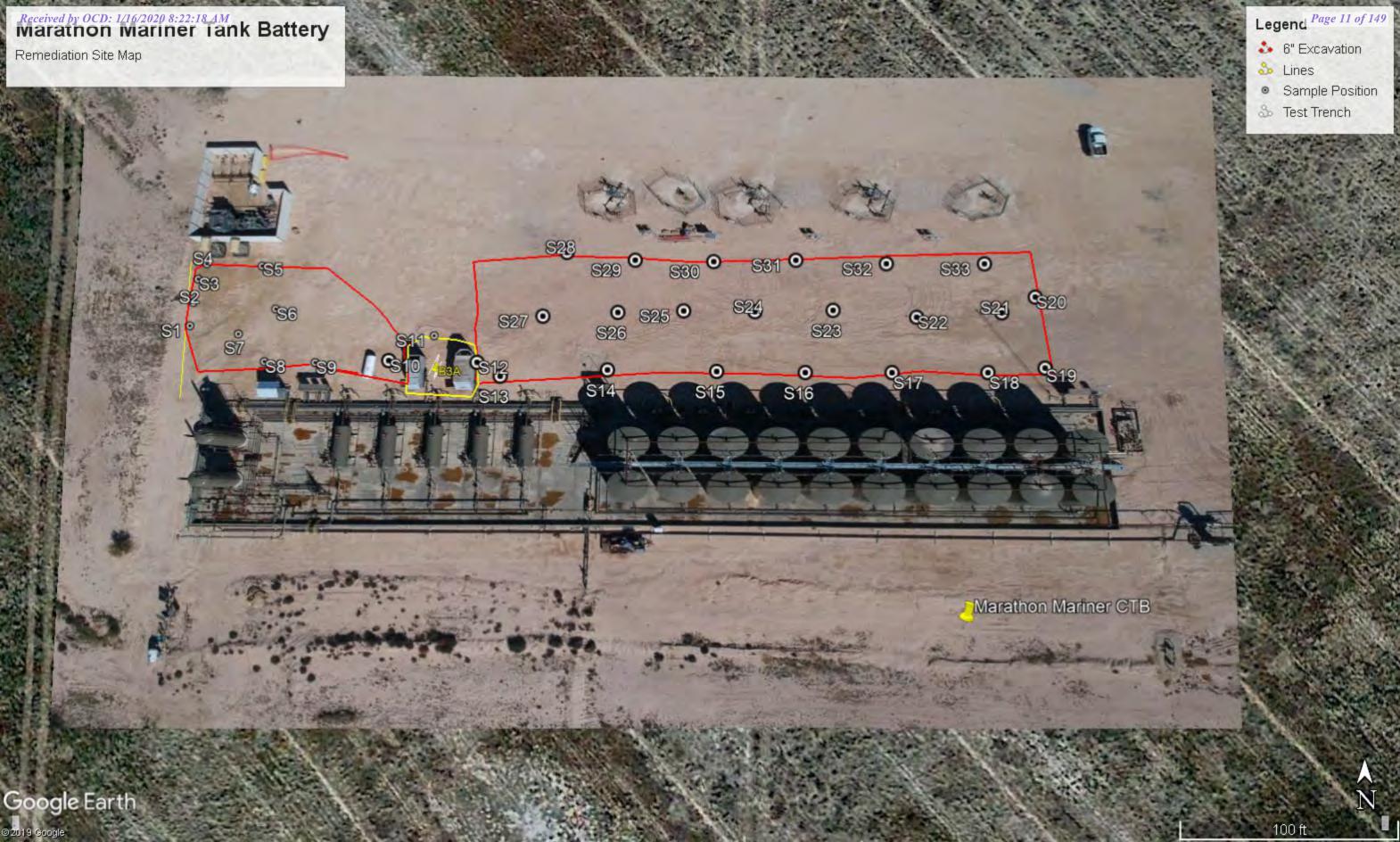
Appendix VI Laboratory Data

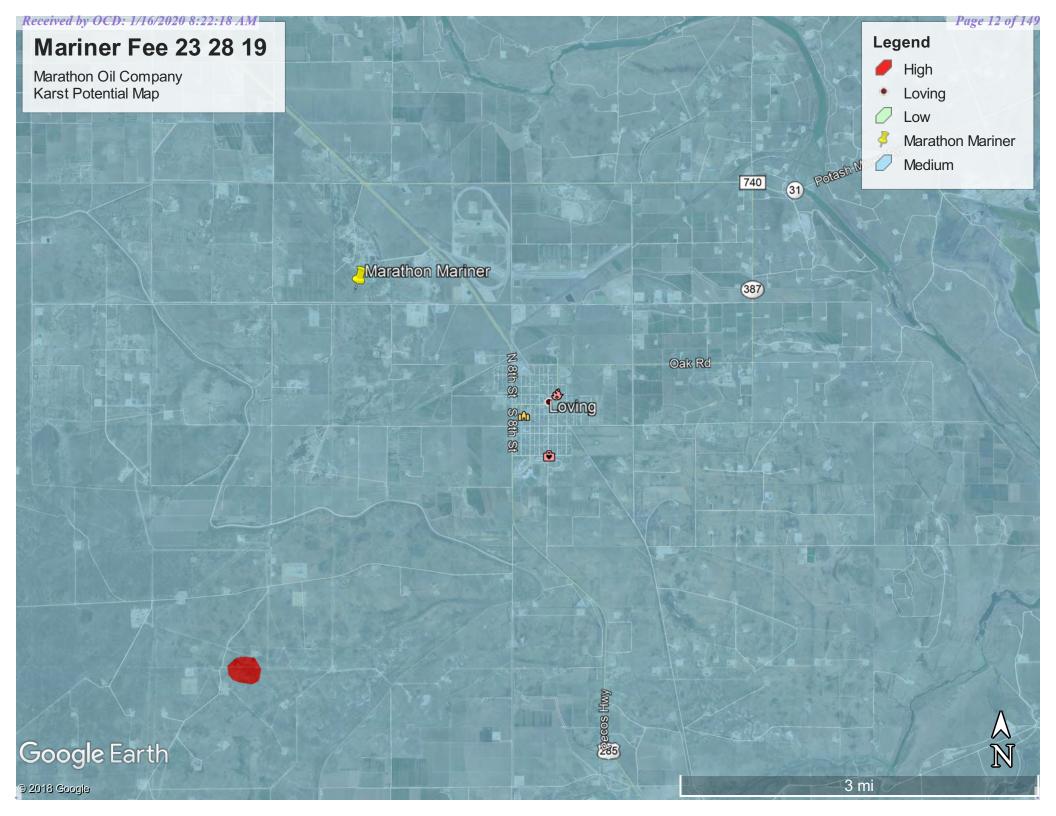


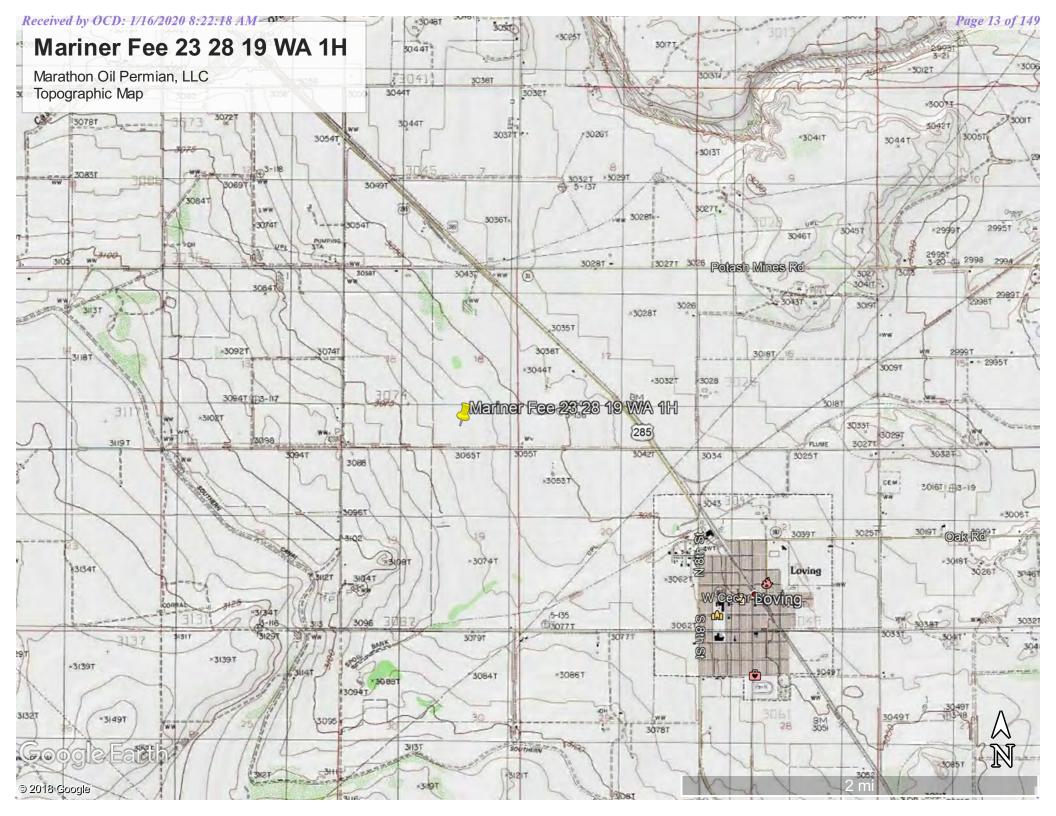
APPENDIX I

SITE MAPS











APPENDIX II

SOIL SURVEY

GROUNDWATER DATA

FEMA FLOOD MAP

Eddy Area, New Mexico

Gs—Gypsum land-Cottonwood complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4j Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 66 degrees F

Frost-free period: 190 to 225 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Gypsum land: 60 percent

Cottonwood and similar soils: 30 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Gypsum Land

Setting

Landform: Plains, ridges, hills

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Side slope, crest, nose

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Description of Cottonwood

Setting

Landform: Ridges, hills

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

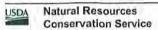
Landform position (three-dimensional): Side slope, crest, nose

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 9 inches: loam H2 - 9 to 60 inches: bedrock



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Map Unit Description: Gypsum land-Cottonwood complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 3 to 12 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.20 to 2.00 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Gypsum, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: D

Ecological site: Gyp Upland (R042XC006NM)

Hydric soil rating: No

Minor Components

Cottonwood

Percent of map unit: 5 percent

Ecological site: Salty Bottomland (R042XC033NM)

Hydric soil rating: No

Rock outcrop

Percent of map unit: 5 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 15, Sep 15, 2019



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to

(NAD83 UTM in meters)

(In feet)

ille.j	cioseu)	DOD		1	arg	est	t)			(1)	IAD83 UTM in r	neters)	(In feet)	
122.0	247	POD Sub-			Q									Water
POD Number C 04289 POD1	Code	basin	County ED		1				Rng 28E	X 582387	Y 3573717	DistanceDe 307	epthWellDepthWat 91	ter Column 78 13
C 04225 POD1		c	ED	2	2	3	18	238	28E	582167	3574424	526	120	71 49
C 00318		CUB	ED	3	3	3	17	238	28E	583136	3573915*	653	250	75 175
C 03922 POD1		C	ED	3	2	3	18	238	28E	581844	3574230 🌀	682	138	75 63
C 02180		Ç	ED			3	18	238	28E	581831	3574198*	685	140	80 60
C 03779 POD1		C	ED	2	3	3	18	235	28E	581707	3574103	788	110	70 40
C 04066 POD1		C	ED	2	4	1	18	238	28E	582038	3574823 🥌	931	155	80 75
C 02697		C	ED		1	3	18	235	28E	581629	3574401*	946	220	42 178
C 03082		C	ED	1	3	3	18	235	28E	581529	3574096*	964	220 2	17 3
C 00851		C	ED			3	17	238	28E	583438	3574217*	971	200	50 150
C 01992		C	ED	3	4	1	19	238	28E	581929	3573094*	1071	232	45 187
C 00333		CUB	ED	3	1	2	18	235	28E	582325	3575118*	1122	147	
C 00312		CUB	ED	3	3	1	20	238	28E	583094	3573015 🥘	1162	230	70 160
C 03753 POD1		C	ED	3	3	1	18	238	28E	581515	3574658 🥘	1171	210	60 150
C 04315 POD1		С	ED	1	3	1	18	235	28E	581620	3574847 🥘	1209		
C 03472 POD1		CUB	ED	4	4	4	07	238	28E	582894	3575479	1526	140	40 100
C 03941 POD2		CUB	ED	3	4	2	13	238	27E	581152	3574745	1526	32	
C 03941 POD1		CUB	ED	3	4	2	13	238	27E	581110	3574757 🍋	1569	37	19 18
C 02846 S		CUB	ED	4	4	4	07	238	28E	582926	3575527*	1580	150	40 110
C 04313 POD1		C	ED	4	3	3	07	238	28E	581677	3575500 🦲	1699	99	86 13
C 01477		CUB	ED	1	3	3	19	238	28E	581532	3572484*	1799	127	10 117
C 04203 POD1		C	ED	2	4	3	07	235	28E	582148	3575792	1817	200 1	60 40
C 03888 POD3		CUB	ED	4	4	4	12	235	27E	581348	3575495	1875	35	
C 03819 POD4		CUB	ED	4	4	4	12	238	27E	581306	3575464	1876	35	
C 03888 POD2		CUB	ED	4	4	4	12	235	27E	581400	3575557 🌍	1894	30	
C 03819 POD5		CUB	ED	4	4	4	12	235	27E	581256	3575451 🤷	1898	36	
C 03819 POD1		CUB	ED	4	4	4	12	235	27E	581270	3575463 🌑	1899	36	
C 03819 POD2		CUB	ED	4	4	4	12	238	27E	581270	3575463	1899	34	
C 03888 POD5		CUB	ED	4	4	4	12	235	27E	581295	3575494	1907	35	
C 03888 POD1		CUB	ED	4	4	4	12	238	27E	581295	3575525 蠲	1931	35	
C 03819 POD3		CUB	ED	4	4	4	12	238	27E	581256	3575500 🧉	1936	35	
C 03888 POD4		CUB	ED	3	4	4	12	238	27E	581139	3575462 🍋	1985	35	
C 03053		C	ED	3	4	4	12	238	27E	581122	3575505*	2027	94	14 80

C 03457		c	ED	3		1 4	1	2 2	238	27E	581081	3575530 🌉	2074	200		
C 00911 POD2		C	ED	1	1	2 4	2	20 2	238	28E	584359	3572911*	2167	69	34	35
C 00911 POD3		C	ED	t	2	2 4	2	20 2	238	28E	584359	3572911'	2167	218	60	158
G 04307 POD1		C	ED	2		1 3	0	7 2	238	28E	581737	3576138	2259	92	78	14
C 00520		C	ED	1		3	1	6 2	238	28E	584754	3574538*	2325	115	33	82
C 00521		С	ED	1		1 3	1	6 2	238	28E	584754	3574538*	2325	218	33	185
C 02004		C	ED		4	3 4	2	24 2	238	27E	580825	3572378*	2329	232	190	42
C 00010		CUB	ED	t	-	2 2	2	25 2	238	27E	581129	3572075*	2363	250	103	147
G 00010 CLW191759	0	CUB	ED	1	2	2 2	2	25 2	238	27E	581129	3572075*	2363	259		
C 00010 ENLGD		CUB	ED	1	2	2 2	2	25 2	238	27E	581129	3572075*	2363	259		
C 02845		CUB	ED	3		1 1	0	7 2	238	28E	581920	3576327*	2388	220		
C 00504		CUB	ED	3		1 4	0	18 2	238	28E	583939	3575949*	2422	230	40	190
C 00544		C	ED	3	:	3 1	2	21 2	238	28E	584762	3573120*	2439	27		
C 02848		CUB	ED	3		3 1	2	21 2	238	28E	584762	3573120*	2439	130		
C 04187 POD1		C	ED	3		3 1	0	7 2	238	28E	581519	3576251	2444	88	48	40
C 00368 CLW197578	0	CUB	ED			3 3	1	3 2	238	27E	580017	3573978*	2472	250	40	210
C 00368 S		CUB	ED			3	1	3 2	238	27E	580017	3573978*	2472	250	120	130
C 00276 S		CUB	ED		-	1 1	2	24 2	238	27E	580017	3573576*	2509	248	130	118
C 00276		CUB	ED	1		1 1	2	24 2	238	27E	579945	3573670 🍋	2566	232	70	162
C 00368		CUB	ED	3		3 3	1	3 2	238	27E	579916	3573877*	2576	250	40	210
C 03542 POD1		CUB	ED	2		1 4	2	20 2	238	28E	584615	3572530 🎒	2589	22	16	6
C 01661		C	ED			3 1	1	3 2	238	27E	580014	3574783*	2593	238	195	43
C 03542 POD2		CUB	ED	2		1 4	2	20 2	238	28E	584620	3572497	2611	30		
C 00309		CUB	ED	1		3 1	0	18 2	235	28E	583129	3576544*	2615	165	16	149
C 00577		C	ED	3	1 8	1 3	2	21 2	238	28E	584764	3572714*	2616	35	10	25
C 00578		C	ED	3		1 3	2	21 2	238	28E	584764	3572714*	2616	28	18	10
C 00643		C	ED	3		1 3	2	21 2	238	28E	584764	3572714*	2616	76	10	66
C 00063		CUB	ED	1	;	3 1	0	7 2	238	28E	581526	3576521*	2691	130		
C 00650		C	ED	1	;	3 3	2	21 2	238	28E	584767	3572508*	2727	32	12	20
C 01779		C	ED	3		1 1	0	8 2	238	28E	583128	3576749*	2814	178	50	128
C 00010 CLW191724	0	CUB	ED	2		3 2	2 2	25 2	238	27E	580926	3571666* 🍯	2815	259		
C 02846		CUB	ED	4		1 1	0	7 2	238	28E	581726	3576726*	2823	150	50	100
C 03762 POD1		CUB	ED	4		4 2	1	7 2	238	28E	585314	3574066	2825	40	31	9
C 00539		C	ED	3		3 3	2	21 2	238	28E	584767	3572308*	2841	28	6	22
C 03762 POD2		CUB	ED	4		4 2	1	7 2	238	28E	584893	3575598	2882	40	30	10
C 00241		CUB	ED	3		3 2	1	2 2	238	27E	580715	3576307*	2904	160		
			ED		1	1 1	0	7 2	225	28E	581613	3576868	2991	140	120	20
C 04250 POD1		C	ED	1					-00	LOL	361013	007 0000	2001	1.40	120	20

63 feet

6 feet

217 feet

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count:71

UTMNAD83 Radius Search (in meters):

Easting (X): 582489.393 Northing (Y): 3574007.714

Radius: 3000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/2/19 2:09 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

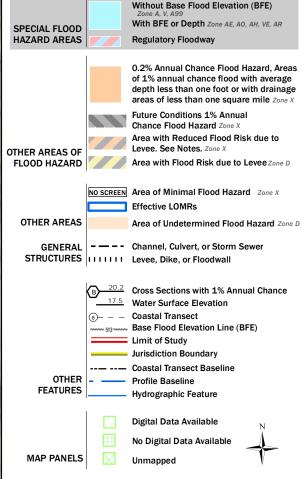
Page 3 of 3

Received by OCD: 1/16/2020 8:22:18 AM National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



9

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/2/2019 at 4:57:51 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





APPENDIX III

INTIAL C-141

Responsible Party Marathon Oil Permian LLC

Contact Name Isaac Castro

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1927633805
District RP	2RP-5640
Facility ID	
Application ID	pAB1927633446

Release Notification

574I6-190911-C-1410

Responsible Party

OGRID 372098

Contact Telephone 575-988-0561

Contact ema	il <u>icastro@n</u>	narathonoil.com			Incident # (assigned by OCD) NAB1927633805			
Contact mail 88220	ing address	4111 S. Tidwell R	d., Carlsbad, NI	M				
			Locatio	n of R	delease So	Source		
Latitude	32.29983	3812	(NAD 83 in	decimal de	Longitude _ grees to 5 decin			
Site Name M	ARINER FI	EE 23 28 19 WA #	[‡] 001H		Site Type (Oil and gas drilling facility		
Date Release	Discovered	8/31/19			API# (if app	pplicable) 30-015-44849		
Unit Letter	Section	Township	Range		Coun	inty		
0	18	23S	28E	Eddy	у			
Crude Oi		l(s) Released (Select a Volume Release		ach calculat	tions or specific	c justification for the volumes provided below) Volume Recovered (bbls)		
	Materia	ıl(s) Released (Select a	ll that apply and atta	ach calculat	ions or specific	c justification for the volumes provided below)		
			` ′			, ,		
Produced	Water	Volume Release	` /			Volume Recovered (bbls) <u>130</u>		
		Is the concentration produced water		d chloride	e in the	⊠ Yes □ No		
Condensa	ite	Volume Release				Volume Recovered (bbls)		
Natural G	ias	Volume Release	ed (Mcf)			Volume Recovered (Mcf)		
Other (de	scribe)	Volume/Weight	Released (prov	ide units))	Volume/Weight Recovered (provide units)		
Cause of Rel	ease							
A wash out v	vas discover	red at a 45 on the n	nain water line f	from the	location's sep	eparator.		

Page 23 of 149

Incident ID	NAB1927633805
District RP	2RP-5640
Facility ID	
Application ID	pAB1927633446

Was this a major release as defined by 19.15.29.7(A) NMAC?		onsible party consider this a major release? [MAC 19.15.29.7(A) based on volume of material released.
⊠ Yes □ No		
		hom? When and by what means (phone, email, etc)? Hamlet, Victoria Venegas, and Jim Griswold
	Initial R	Response
The responsible p	party must undertake the following actions immediate	ely unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	d the environment.
Released materials ha	we been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed a	nd managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
Dog 10 15 20 9 D (4) NIM	A C the man engille morty may common an	remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release no nent. The acceptance of a C-141 report by the ate and remediate contamination that pose a thi	be best of my knowledge and understand that pursuant to OCD rules and tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In f responsibility for compliance with any other federal, state, or local laws
Printed Name: <u>Isaa</u>	c Castro_	Title: <u>Environmental Professional</u>
Signature: <i>Isaac</i>	e Castro	Date: 9/11/19
email: <u>icastro@marath</u>	onoil.com	Telephone: <u>575-988-0561</u>
OCD Only		
Received by: Amalia	Bustamante	Date: 10/03/2019

Received by OCD: 1/16/2020 8:22:18 AM State of New Mexico Oil Conservation Division

	Page 24 of 14
Incident ID	NAB1927633805
District RP	2RP-5640
Facility ID	
Application ID	pAB1927633446

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil

Characterization Report Checklist: Each of the following items must be included in the report.

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- X Field data
- X Data table of soil contaminant concentration data
- x Depth to water determination
- X Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X Boring or excavation logs
- X Photographs including date and GIS information
- Topographic/Aerial maps
- X Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 1/16/2020 8:22:18 AM
Form C-141 State of New Mexico
Page 4 Oil Conservation Division

Page	<i>25</i>	of	1	49

Incident ID	NAB1927633805
District RP	2RP-5640
Facility ID	30-015-44849
Application ID	pAB1927633446

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Isaac Castro	Title: Environmental Professionsl
Signature:	Date: _12/5/19
email:jcastro@marathonoil.com	Telephone:575-988-0561
OCD Only	
Received by:	Date:

Received by OCD: 1/16/2020 8:22:18 AM
State of New Mexico
Page 6
Oil Conservation Division

Page 26 of 149

Incident ID	NAB1927633805
District RP	2RP-5640
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

	•
A scaled site and sampling diagram as described in	19.15.29.11 NMAC
Photographs of the remediated site prior to backfill must be notified 2 days prior to liner inspection)	or photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: approp	riate ODC District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
and regulations all operators are required to report and/or may endanger public health or the environment. The accesshould their operations have failed to adequately investigated human health or the environment. In addition, OCD accessompliance with any other federal, state, or local laws and restore, reclaim, and re-vegetate the impacted surface area.	nd complete to the best of my knowledge and understand that pursuant to OCD rules file certain release notifications and perform corrective actions for releases which eptance of a C-141 report by the OCD does not relieve the operator of liability atte and remediate contamination that pose a threat to groundwater, surface water, ptance of a C-141 report does not relieve the operator of responsibility for lor regulations. The responsible party acknowledges they must substantially a to the conditions that existed prior to the release or their final land use in n to the OCD when reclamation and re-vegetation are complete.
Printed Name: Melodie Sanjari	Title: Environmental Professional
Signature: Melodie Sanjari	Date: 1/14/2020
email: msanjari@marathonoil.com	Telephone: 575-988-0561
OCD Only	
Received by:	Date:
	ible party of liability should their operations have failed to adequately investigate and r, surface water, human health, or the environment nor does not relieve the responsible laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:
_	

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	Г52М9-191216-С-141
District RP	
Facility ID	
Application ID	

Release Notification

			Res	ponsi	ble Party	\mathbf{y}
Responsible Party: Marathon Oil Permian LLC OGRID:			OGRID: 3	372098		
Contact Name: Melodie Sanjari				Contact Te	elephone: 575-988-0561	
Contact ema	il: msanjari@	marathonoil.com	1		Incident #	(assigned by OCD)
Contact mail 88220	ing address:	4111 S. Tidwell l	Rd., Carlsbad NM	И		
			Location	n of R	elease So	ource
Latitude 32.2	9983812		Longitude (NAD 83 in d		-104.123844 grees to 5 decim	
Site Name: M	Iariner Fee 2	23 28 19 WA #001	Н		Site Type:	Oil & Gas Drilling Facility
Date Release	Discovered:	: 12/13/2019			API# (if app	plicable): 30-015-44849
Unit Letter	Section	Township	Range		Coun	nty
О	18	23S	28E	Eddy	Eddy	
	Materia	Federal T	Nature an	d Vol	ume of I	
Crude Oil	I	Volume Release				Volume Recovered (bbls) 25
Produced	Water	Volume Release	Volume Released (bbls)			Volume Recovered (bbls)
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?			in the	☐ Yes ☐ No		
Condensa					Volume Recovered (bbls)	
Natural G	as Volume Released (Mcf)			Volume Recovered (Mcf)		
Other (de	Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)		Volume/Weight Recovered (provide units)			
approximatel	eported a rele y 26.53 bbls and containn	s of crude oil into nent. A vacuum tr	the SPCC lined c	ontainm	ent and onto	e to corrosion. This resulted in the release of the pad. Initial response included source elimination, ecover fluids within the containment (25 bbls recovered)

- 73			20		C 4	
~	ag	o	JX	α	f 1	ΔI
	uc		AU U	\boldsymbol{v}		7,

Incident ID	T52M9-191216-C-1410
District RP	
Facility ID	
Application ID	

	Volume released	whom? When and by what means (phone, email, etc)?
	Initial	Response
The responsible p	party must undertake the following actions immed	iately unless they could create a safety hazard that would result in injury
☐ Released materials ha☐ All free liquids and re	s been secured to protect human health a	or dikes, absorbent pads, or other containment devices. and managed appropriately.
has begun, please attach	a narrative of actions to date. If remed	the remediation immediately after discovery of a release. If remediation it is a lefforts have been successfully completed or if the release occurred by, please attach all information needed for closure evaluation.
regulations all operators are public health or the environmental to adequately investigations.	required to report and/or file certain release ment. The acceptance of a C-141 report by that and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger not occupant to OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws
Printed Name: Melodie S	anjari	Title: Environmental Professional
Signature: Melodie So	mjari	Date: 12/16/2019
email: msanjari@maratho	onoil.com	Telephone: 575-988-0561
OCD Only		
Received by:		Date:

Received by OCD: 1/16/2020 8:22:18 AM Form C-141 State of New Mexico Page 3 Oil Conservation Division

Topographic/Aerial maps

☐ Laboratory data including chain of custody

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Incident ID	_
District RP	T52M9-191216-C-1410
Facility ID	
Application	
ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>78</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vert contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information 	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Incident ID	
District RP	T52M9-191216-C-1410
Facility ID	
Application	
ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

addition, OCD acceptance of a C-141 report does not relieve the operator and/or regulations.	r of responsibility for compliance with any other federal, state, or local laws
Printed Name: Melodie Sanjari	Title: Environmental Professional
Signature: Melodie Sanjari	Date: 1/14/2020
email: msanjari@marathonoil.com	Telephone: 575-988-0561
OCD Only	
Received by:	Date:

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Incident ID
District RP T52M9-191216-C-1410
Facility ID
Application
ID

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29	9.11 NMAC
Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office
□ Laboratory analyses of final sampling (Note: appropriate Old	DC District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
and regulations all operators are required to report and/or file cert may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and re numan health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regu	plete to the best of my knowledge and understand that pursuant to OCD rules tain release notifications and perform corrective actions for releases which of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for ulations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in a OCD when reclamation and re-vegetation are complete.
Printed Name: Melodie Sanjari	Title: Environmental Professional
Signature: Melodie Sanjari	Date: 1/14/2020
email: msanjari@marathonoil.com	Telephone: 575-988-0561
OCD Only	
Recived by:	_ Date:
	ty of liability should their operations have failed to adequately investigate and be water, human health, or the environment nor does not relieve the responsible ad/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:
_	



APPENDIX IV

DISPOSAL MANIFESTS

Expert Transportation Corp.

2911 Connie Rd. • Carlsbad, NM 88220

92652 575-706-1821 • 575-302-2766 575-706-2657

Date	Truck #	
Company	hon	
Location	HEHEH SH	
Deliver to		111 12 11
Seal on	Seal Off	
Top Gauge	Bottom Gauge	
Tank No	Tank Size	
START TIME : AM PM END TIME		TAL OURS
☐ Fresh water	Barrels	
☐ Brine water	Barrels	
☐ Produced water	Barrels	
☐ Other	Barrels	
☐ 3rd Party Hours	; @	
□ KCL	Barrels	prop
Let the yord	8.000m	9,00
	A	1111/2 Lo
Uniking on Loc	otion	9.00
Leut 100 feet a	r \	
	1 HOSE	21 (200
and the		et Laco
	ound to	C1 (2000)
	ound to	ch Lass
	ound to	
SWD Disposal Ticket Number	TAX TOTAL	
clean a spill to	TAX TOTAL	

Expert Transportation Corp.

2911 Connie Rd. • Carlsbad, NM 88220

575-706-1821 • 575-302-2766

#92746 575-706-2657

Date <u>8 - 31 - 19</u>	Truck #
Company MARTHON	
Location MACON F	11/24 64 9
Deliver to	
Seal on	Seal Off
Top Gauge	Bottom Gauge
Tank No	Tank Size
START TIME : AM PM END TIME	AM TOTAL PM HOURS
☐ Fresh water	Barrels
☐ Brine water	Barrels
□ Produced water	Barrels
□ Other	Barrels
☐ 3rd Party Hours	; @
□ KCL	Barrels
Waled Co. 15	the Day of the table
LIKE 9 - Loca	- d - at
of to yild for	42 t = 1p =
LET OF HE	1 12 1/2 1/2
10	the live at the
Leave to be made	the state of the s
To R 260	TAX
white but	TOTAL
SWD Disposal Ticket Number	
Work Performed By	BUC II I
Signature	Auth#

Expert Transportation Corp.

2911 Connie Rd. • Carlsbad, NM 88220

575-706-1821 • 575-302-2766

92747

575-706-2657		
Date	Truck #	
Company		
Location Manual F. F.	14246-9	1 10 17
Deliver to		
Seal on	Seal Off	
Top Gauge	Bottom Gauge	
Tank No.	Tank Size	
START TIME : AM END TIME	AM TO PM HO	TAL URS
☐ Fresh water	Barrels	
☐ Brine water	Barrels	
□ Produced water	Barrels	
Other	Barrels	
☐ 3rd Party Hours	@	
□ KCL	Barrels	
ALS A TON EFF I'M	C B HA	
111111 22 266 1 19	FARE SELL	
I PL+ 110 FT CF	17000	
with the 2 7 air.	d TI Cler	
a 500 had 18	Ludi ZE	
F		
Land 5- 15 Cate	11 95	14.11
Acres & will select South	TAX	12
	TOTAL	
SWD Disposal Ticket Number		
Work Performed By	0.7	

Signature

Auth#



Permian Basin

Customer: Customer #:

MELADIE SANJARI

AFE #: PO #:

Ordered by:

Manifest #: 30875 Manif. Date: 12/18/2019

1

Hauler: Driver

REDLINE OILFIELD SERVICES **OSCAR**

Truck # Card # Job Ref# MARATHON OIL COMPANY Ticket #: CRI3930

Bid #: Date:

700-1090383 O6UJ9A000AM5 12/18/2019

Generator: MARATHON OIL COMPANY

Generator #:

44849 Well Ser. #: Well Name: MARINER FEE 23 28 19 WA

Well #: 001H

Field: Field #:

NON-DRILLING Rig: County EDDY (NM)

Facility: CRI

Product / Service Quantity Units Contaminated Soil (RCRA Exempt) 4.00 yards Cell CI pΗ %Solids **TDS** Cond. PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 0.00 0.00 0.00 0

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

Driver/	Agent	Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:	Date
.pp.0100 Dy.	Date,



Customer: MARATHON OIL COMPANY

CRI3930

MELODIE SANJAVI

AFE #: PO #:

Customer #:

Ordered by:

423404

1

Manifest #: 12/19/2019 Manif. Date: REDLINE OILFIELD SERVICES

Hauler: **IVAN** Driver Truck #

Card # Job Ref# Ticket #: 700-1090717 Bid #:

O6UJ9A000AM5 Date: 12/19/2019

Generator: MARATHON OIL COMPANY

Generator #: Well Ser. #:

44849 Well Name: MARINER FEE 23 28 19 WA Well #: 001H

Field: Field #:

NON-DRILLING Rig: County EDDY (NM)

Facility: CRI

Product / Service	ce					Q	uantity l	Units		grafe eri.	
Contaminated S	Soil (RCF	RA Exempt)				7.00 y	yards			
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GN	MR/HR	H2S	% Oil	Weight
Lab Analysis:	11	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information RCRA Hazardous Waste Analysis Process Knowledge

_ MSDS Information	_ RCRA Hazardous Waste Analysis	_ Process Knowledge	_ Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature	
		
Customer Approval		

Approved By:		Date:	
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Company Man Contact Information
Name MCLOCITE Son Say i

Part State Table Mary Annual Residence Mary Annua		GENE	RATOR	Phone No. 5 74	-5704786
Lessayers - Hame & Tab Manney Fee 23-78-19 Ool Country An No. 300 LS 4115449 An No. 300 LS 411549 An No. 300 L	merator No Marat	hon		mara FLOS 340	14
TOWN TOWN THE STAMP READ Name & No. 300 S YURS 49 READ Name & No. 40 PO NO	10010	1/1/4 6.1 4.1	6.4.4		-19 0-1
SECOND STATES Second State		VIVIATOROS		Timer fee as a a	100
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Based Curtury Control Based Mark Based Curtury Complete The Based Mark Complete The Work of Mark Complete The Based Mark Complete The Based Mark Complete The Work of Ma			(place volume next to w		
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TRUNK WISCONN Trunk Waster Trun			ole)		
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AST GENERATION PROCESS: DRILLING NON-EXEMPT EAP Waste/Service Identification and Amount All non-exempt REP waste must be analysed and be below the threshold limits for toxicity (TCD), ignibility, Corroshity and Reactivity. In Exempt Other Phones select from Non-Exempt Waste List on back All non-exempt Waste List on back LUDIO VANILY B. BARRES L. LUDIO VANILY E. EACH CREAT IN CREATER TO BE Resource Consensation and Receivery Act (RERA) and the U.S. Exertronmental Protection Agency's large Valley Received waste all to U.S. Clean appropriate describination, the above described waste all to U.S. Clean appropriate describination, the above described waste all to U.S. Clean appropriate describination and Receivery Act (RERA) and the U.S. Exertronmental Protection Agency's large Valley Received waste all to U.S. Clean appropriate describination and Receivery Act (RERA) and the U.S. Exertronmental Protection Agency's large Valley Received waste all to U.S. Clean appropriate describination and protection and protection and act in the control of the CREATER		Truck Washout (exempt waste)		HVdsovac	
All non-exempt EAP waste must be analysed and be balow the threshold limits for todality (TCLP), jointability, Corcosidity and Reactivity. Intervity B - BARRES L - LIQUID - YARD E EACH INTERVITY B - BARRES L - LIQUID - YARD E EACH INTERVITY B - BARRES L - LIQUID - YARD E EACH INTERVITY B - BARRES L - LIQUID - YARD E EACH INTERVITY B - BARRES L - LIQUID - YARD E EACH INTERVITY B - BARRES L - LIQUID - YARD E EACH INTERVITY B - BARRES L - LIQUID - YARD E EACH INTERVITY B - BARRES L - LIQUID - YARD E EACH INTERVITY B - BARRES L - LIQUID - YARD E EACH INTERVITY B - BARRES L - LIQUID - YARD E EACH INTERVITY B - BARRES L - LIQUID - YARD E EACH INTERVITY B - BARRES L - LIQUID - YARD E EACH INTERVITY B - BARRES L - LIQUID - A grazy's July 1988 registrator, the above described waste as the several production and are not mixed with non-exempt waste (R360 Accepts certifications on a period basis only) INTERVITY - BURK REMAINER - BARRES - BA		DRILLING COM	PLETION	7.7	RING LINES
All non-exercite ERP waste must be analyzed and be below the threshold limits for toxicity CEUP, lechability, Corrosivity and Reachility. **Groups order** **Inches exercit from **Ann Exempt Waste List on back** **Inches exercity from **Ann Exempt Waste List on back** **ANNTY** **B - BARRES** L- LIQUID **YARD** E- EACH **Proceeding to the Resource Conservation and Receivery Act (RCRA) and the US Environmental Protection Agency's July 1588 registratory determination, the above described waste its Conservation and Receivery Act (RCRA) and the US Environmental Protection Agency's July 1588 registratory determination, the above described waste its Conservation and Receivery Act (RCRA) and the US Environmental Protection Agency's July 1588 registratory determination, the above described waste as Conservation and RCRA ROMAN EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by distracteristics established in RCRA ROMAN EXEMPT: Oil field waste which is non-hazardous waste as defined by 40 CFR, part 261, subpart 0, as amended. The following documentation demonstrating the waste as non-hazardous or attacked. (Check the appropriate items as provided) MSDS information		NON-EXEMPT E&P Waste/S	ervice Identification and Amo	ount	
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TRANSPORTER MERGENCY NON-DIFFELD: September Sep	n-Exempt Other		*please select fro	om Nan-Exempt Waste List on back	
TRANSPORTER MERGENCY NON-DIFFELD: September Sep	ANTITY	B - BARRELS	L- LIQUID	7 V. YARDS	E EACH
als EU-Six to a appropriate classification) RCRA REMPT: Inaid basis only RCRA REMPT: Inaid basis only RCRA NON EXEMPT: Inaid basis only Inaid basis only Inaid waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 C 2612-261.74, on Rcra Inaid basis only Inaid basis only Inaid waste which is non-hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous a starched. (Check the appropriate items as provided) MSDS Information RCRA Nezardous Waste Analysis Inaid basis in the provided Description Below) Emergency non-hazardous, non-olifelid waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form) Inaid basis in the provided Description Below Inaid basis in the provide				T	
RUTH LEMPH: load basis only RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 4D C FR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided) MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below)	is (Check the appropriate classification)				
TRANSPORTER Insporter Reduce Of Field Service ICC Driver's Name Jan Vilgicia Of Truck No. Interest SI7 5 Leech 5 Hobbs NVM Print Name Phone No. Truck No. Truck No. Truck No. Truck No. Truck No. Truck Time STAMP OUT: Name/ No. Normal Halfway Facility / NM1-006 Geogle Gonge Gon	T DIVIDES GENUT NUMBER DEPENDE			f Public Safety (the order, documentation of n	on-hazardous waste
TRUCK TIME STAMP Is a Name / Malfway Facility / NML-006 Phone No. TRUCK TIME STAMP Is No. If YES, was reading > 50 micro roentgens? (circle one) Phone No. TOUT: If YES, was reading > 50 micro roentgens? (circle one) Phone No. TANK BOTTOMS If YES, was reading > 50 micro roentgens? (circle one) TANK BOTTOMS If YES, was reading > 50 micro roentgens? (circle one) Feet Inches BS&W/BBIS Received BS&W/BBIS Received If Yee Water Total Received BS&W/BBIS Received BS&W/BBIS Received Total Received BS&W/BBIS Received Total Received	TAMASA UNLOCASTO TOTALS NAME		PATE	SIGNATURE	
TRUCK TIME STAMP Is a Name / Main No. TRUCK TIME deposed and delivered voltour incident to the disposal facility listed below. TRUCK TIME No. TRUCK TIME And A Name / Main No. TRUCK TIME STAMP Is a Name / Main No. TRUCK TIME And A N		TRANS	PORTER		
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Truck No.		eprh st lander A	JV Print Name	Viredec	
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TRUCK TIME STAMP OUT: Phone No. 575-393-1079 Halfway Facility / NM1-006 Phone No. 575-393-1079 NORM READINGS TAKEN? (Circle One) PASS THE PAINT FILTER TEST? (Circle One) Feet Inches Gauge Hauge State of the paint of the p	12/19/19 -	an 1/11/9/02/05	12/10,	19 TICH	111100
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Phone No. 575-393-1079 Phone No. 575-393-1079 Phone No. 575-393-1079 If YES, was reading > 50 micro roentgens? (circle one) YES NO PASS THE PAINT FILTER TEST? (Circle One) YES NO Feet Inches BS&W/BBLS Received BS&W (%) Free Water Free	: OUT:			Name/No.	1001
Halfway Facility / NM1-006 Phone No. 575-393-1079 NORM READINGS TAKEN? (Circle One) YES NO PASS THE PAINT FILTER TEST? (Circle One) YES NO Feet Inches BS&W/BBLS Received BS&W (%) Free Water Free					VII
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Free Water Total Received		Inches			
Total Received Total Received			BS8		W (%)
	eceived				
Thereby cartify that the above load material has been (circle one): ACCEPTO DENIET If denied, why?			A .		
(1000) 10-1014 Minn	thereby certify that the above load materia	I has been (circle one): ACCEPTIO DI	If denied, why?		
	$(\bigcirc \bigcirc$	10-10-14	YVIII	(()	/



Customer: Customer #:

426858

JUAN

02

12/19/2019

TALON/LPE, LTD.

Ordered by:

Manifest #:

Manif. Date:

AFE #:

Hauler:

Driver

Truck #

Card #

Job Ref#

PO #:

MARATHON OIL COMPANY CRI3930 **MELODY SANJARI**

Ticket #: Bid #:

700-1090615

Date:

O6UJ9A000AM5 12/19/2019

Generator:

MARATHON OIL COMPANY

Generator #:

Well Ser. #: 44736

Well Name:

MARINER FEE 23 28 19 WA

Well#:

010H

Field: Field #:

Rig:

NON-DRILLING

County

EDDY (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

% Oil

Lab Analysis:

Cell 50/51 0.00

CI Cond. 0.00 0.00

%Solids 0

TDS

PCI/GM

MR/HR

H2S

Weight

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information	_ RCRA Hazardous Waste Analysis	_ Process

Process Knowledge _ Other (Provide description above)

Driver/	Agent	Signat	ture
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R360 Representative Signature

Customer Approval

Approved By:	Date:	
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574 - 370 - 978 C 149

C	ompany	Man Con	tact Information
Name		CNI	
onn Na	mo	MI	Sano

		GENERATO	OR		26858
perator No.			Permit/RRC No. Lease/Well	30-015	44/231
.00 -	AW CASTIZO		Name & No.	Mariner	TOO 08 05
dress	rathon		API No	Main	TOTA # ATO
y. State, Zip	,0,1		Rig Name & No.	- Idul b	1011 11010
one No.			AFE/PO No	NOW - D	rilling
	MPT E&P Waste/Service Ider	ntification and Amount (place vo	fume next to	waste type in barrels or cubic ya	rds)
Based Muds Based Cuttings	NON-INJECTABLE Washout Water			INJECTABLE WATERS Washout Water (Injectable)	
ater Based Muds	Completion Fluid	(/Flow back (Non-Injectable)		Completion Fluid/Flow back (Inje	ctable)
ater Based Cuttings oduced Formation Solids	Produced Water Gathering Line W	(Non-Injectable) /ater/Waste (Non-Injectable)		Produced Water (Injectable) Gathering Line Water/Waste (Injectable)	l ectable)
nk Bottoms	INTERNAL USE OF	МÍÝ		OTHER EXEMPT WASTES (type and	
kP Contaminated Soil as Plant Waste	Y Truck Washout (e	exempt waste)			
ASTÉ GENERATION PROCESS	DRILLING	[] COMPLETION		PRODUCTION	GATHERING LINES
All nan	NO	ON-EXEMPT ERP Waste/Service Iden	ufication and Ar	nount	
n-Exemps Other	esemptices waste must be analy	ysed and be below the threshold lim		CLP), Ignitablaty, Corrosivity and Kea from Non-Exempt Waste List on bod	
ANNIYO				DAR	
ereby certify that according to the Re			L – LIQUID	Z (-YARDS)	ê EACH
det	ermination and a desciption of th	eild waste that has been ordered by t ne waste must accompany this form)	the Department	of Public Safety (the order, documer	tation of non-hazardous waste
[28001] AUTOGRAFI LI ALEMESTANO		TRANSPORT		58	MAT(III)
nsporter's TALO	N 2PE		Driver's Name	JUAN (2.1
diess		3	Print Name		MISTICO
			Phone No.		
ne No.			Fruck No.	02	1
reby certify that the above named m	aterial(s) was/were picked up at	the Generator's site listed above and	delivered with	out incident to the disposal facility lis	ted below
SHIPMENT DATE	DRIVER'S SIGNATURE	- 15 TO	Dire	AND DATE TO STAND THE STAN	DRIVER'S SIGNATURE
TRUCK TIME		DISPOSAL FAC	CILITY	RECEIV	ING AREA
: OI	JT:			Name/No.	()
Name/	-006				
THE MAY L'ACHIEV / NM I			Phone No.	575.393.1079	
The second secon	2/180 Mile Marker 66 Carlsbad, F		rnone No.	575-393-1079	,0,10,
	2/180 Mile Marker 66 Carlsbad, P ? (Circle One) YES	NM 88220			s) VEC
6601 Hobbs Hwy US 6	? (Circle One) YES		If YES, was read	575-393-1079 ding > 50 micro roentgens? (circle on	2) YES NO
NORM READINGS TAKEN	? (Circle One) YES	NM 88220	If YES, was read		2) YES NO
norm readings taken PASS THE PAINT FILTER TEST	? (Circle One) YES	NM 88220 NO TANK BOTTO	If YES, was read O	ling > 50 micro roentgens? (circle on	
NORM READINGS TAKEN PASS THE PAINT FILTER TEST	? (Circle One) YES ? (Circle One)	NM 88220 NO TANK BOTTO	If YES, was read O		2) YES NO
NORM READINGS TAKEN PASS THE PAINT FILTER TEST Feet Gauge	? (Circle One) YES ? (Circle One)	NM 88220 NO TANK BOTTO	If YES, was read O	ding > 50 micro roentgens? (circle on	
NORM READINGS TAKEN PASS THE PAINT FILTER TEST Feet Gauge Gauge	? (Circle One) YES ? (Circle One) Incl	NM 88220 NO TANK BOTTO hes	If YES, was read O DIVIS	ding > 50 micro roentgens? (circle on S&W/BBLS Received Free Water Total Received	
NORM READINGS TAKEN PASS THE PAINT FILTER TEST Feet Gauge Gauge	? (Circle One) YES ? (Circle One) Incl	NM 88220 NO TANK BOTTO	If YES, was read O	ding > 50 micro roentgens? (circle on S&W/BBLS Received Free Water Total Received	
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Customer:

CRI3930 Customer #:

MELODY SANJARI

AFE #:

PO #: Manifest #:

Ordered by:

426860 Manif. Date: 12/19/2019 TALON/LPE, LTD.

003

ERNESTO

Hauler: Driver Truck #

Card # Job Ref# MARATHON OIL COMPANY

Date: Generator:

Ticket #:

Bid #:

700-1090616 O6UJ9A000AM5 12/19/2019

MARATHON OIL COMPANY

Generator #:

Well Ser. #: 44736

Well Name: MARINER FEE 23 28 19 WA

Well #: 010H

Field: Field #:

Rig: **NON-DRILLING** EDDY (NM) County

Facility: CRI

Product / Servi	ice					Q	uantity	Units				
Contaminated	Soil (RCR	RA Exempt)				20.00	yards				
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/G	ME ME	/IR/HR	H2S	% Oil	Weight
Lab Analysia	50/51	0.00	0.00	0.00	0							

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the	US Environmental Protection Agency's July
1988 regulatory determination, the above described waste is:	

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ M	ISDS Information	_ RCRA Hazardous \	Waste Analysis	Process Knowledge	 Other (Provide description above)
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Driver/ Agent Signature	R360 Representative Signature	
Customer Approval	n, rest Warmane jenjih jale sa	

Approved By:	Date:



Company Man Contact Information
Name The Art Trans.

	1 - 10	The second secon	Control Control	111011	e No Melacu	
	1	GENERAT	OR	NO.	426860	
Operator No	0		Permit/RRC No. Lease/Well	7 . 5	1/1/27 /	
Operators Name ERNESTG Address MA 12A	CAFCA	che.	Name & No	30-015	-44736	24.4
Address	71		County	MARINE	R FRE Z3- WA #	2819
	HON		API No		17 H 11	01011
rty, State, Zip			Rig Name & No.			
hone No	48 - 200		AFE/PO No			
Jil Based Murfs	Vaste/Service Identi NON-INJECTABLE V	fication and Amount (place v	Volume next to v	aste type in barrels or cu INJECTABLE WATERS	ibic yards)	
Dil Based Cuttings	Washout Water (N	Application of the second of t		Washout Water [Injectabl	0)	100
Water Based Muds Water Based Cuttings	Completion Fluid/F Produced Water (N	low back (Non-Injectable)		Completion Fluid/Flow ba Produced Water (Injectab		
Produced Formation Solids	The second secon	er/Waste (NoreInjectable)		Gathering Line Water/Wa		
ank Bottoms	INTERNAL USE ONL			OTHER EXEMPT WASTES I	ype and generalistic repress of the	e wastel
&P Contaminated Soil Has Plant Woste	Truck Washout (ex	empt waster				
VASTE GENERATION PROCESS:	DRILLING	COMPLETION		PRODUCTION	GATHERING LIN	ES
AN Last Assessment		-EXEMPT E&P Waste/Service life				
All non exempt tach	waste must be analys	ed and be below the threshold in		te), ignitability, corrosivity a om Non-Exempt Waste List		
					5	
UANTITY		- BARRELS	t tiquid	20 (VARI		E - EACH
nereby certify that according to the Resource Consi ad is (Check the appropriate classification)	ervation and Recovery	Act (RCRA) and the US Environm	ental Protection A	gency's July 1988 regulatory	determination, the above des	scribed waste
				Other (Provide Description		
I DIVIERGENCE NON-OILFEILU:		d waste that has been ordered b waste must accompany this form				ous waste
determination a	and a desciption of the	waste must accompany this form	n)		cumentation of non-hazardo	ous waste
determination a	and a desciption of the	waste must accompany this form	n)	of Public Safety (the order, do	ocumentation of non-hazardo	
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Facility: CRI

MARATHON OIL COMPANY Customer:

CRI3930

MELODY SANJARI

AFE #: PO #:

Manifest #:

Driver

426859 12/19/2019

Manif. Date: Hauler:

Customer #:

Ordered by:

TALON/LPE, LTD.

ABEL 48

Truck # Card # Job Ref# Ticket #: Bid #:

700-1090618

Date:

O6UJ9A000AM5 12/19/2019

MARATHON OIL COMPANY

Generator:

Generator #:

44736 Well Ser. #: MARINER FEE 23 28 19 WA Well Name:

Well #: 010H

Field:

Field #:

Rig:

NON-DRILLING

County

EDDY (NM)

Product / Service Quantity Units Contaminated Soil (RCRA Exempt) 20.00 yards Cell CI Cond. %Solids **TDS** PCI/GM MR/HR H2S % Oil Weight 50/51 0.00 0.00 0.00 Lab Analysis: 0

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by
- characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information Other (Provide description above) PCP A Hazardaye Waste Analysis

_ mobo imonination	_ New Triazardous Waste / Trialysis	_ I locess Knowledge	_ Other (1 rovide description above

,	 -	
Customer Annroval		

Driver/ Agent Signature

THIS IS NOT AN INVOICE!

R360 Representative Signature

Approved By:	1	Date:	



No.		GENERA		No. 426859
perators Name Abel MARTE	Layarda'		Permit/RRC No. Lease/Well Name & No. County API No	30-015-44736 MARINER FEE 2329 19 WA # 6101+
ty, State, Zip			Rig Name & No	
one No		-	AFE/PO No	
If Based Muds If Based Muds After Dased Muds Fater Based Cuttings Forduced Formation Salids Fork Bottoms SiP Contaminated Soil as Plant Waste	NON-INJECTABLE Washout Water I Completion Fluid Produced Water	E WATERS (Non-Injectable) I/Flow back (Non-Injectable) (Non-Injectable) Vater/Waste (Non-Injectable) NLY	ace volume next to v	Waste: type in barrels or cubic yards) INJECTABLE WATERS Washout Water (Injectable) Completion Fluid/Flow back (Injectable) Produced Water (Injectable) Gathering Line Water/Waste (Injectable) OTHER EXEMPT WASTES (type and separation process of the waste)
ASTE GENERATION PROCESS:	DRILLING	COMPLET	rion [PRODUCTION GATHERING LINES
		ON-EXEMPT E&P Waste/Servic		
All non-exc n-Exempt Other	mpt E&P waste must be anal	lysed and ne below the thresho		CLP), Ignitability, Corrosivity and Reactivity. rom Non-Exempt Waste List on back
ANTITY		B -BAHRELS	L - เป ด ุปเป	YARD 20 E EACH
reby certify that according to the Resou	rce Conservation and Recove	ery Act (RCRA) and the US Envir	onmental Protection A	gency's July 1988 regulatory determination, the above described waste
I EIVIERGENLY MUNICULEETTI		he waste must accompany this		of Public Safety (the order, documentation of non-hazardous waste
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ne No responser that the above named mate	rial(s) was/were placed up/n	the Generator's site listed abo		Abel Jospards A - 48 out incident to the disposal facility listed below. JERRY DATE JE
TRUCK TIME S	40	DISPOSAL		RECEIVING AREA
:OUT	1			Name/No.
Name/ nit No. Halfway Facility / NM1-00)6		Phone No.	575-393-1079
	80 Mile Marker 66 Carlsbad,	NM 88220		
NORM READINGS TAKEN? (C		ES NO	If YES, was read NO	ling > 50 micro roentgens? (circle one) YES NO
		TANK BO	TTOIVIS	
Gauge Feet Gauge eived	Inc	hes	BS	&W/BBLS Received BS&W (%) Free Water Total Received
hardby certify that the above load mate	erial has been (circle) (e)	ACCEPTED DENIET	denied, why	R SOMMUNE



Customer: MARATHON OIL COMPANY

Customer #: CRI3930

MELODY SANJARI Ordered by:

JUAN

02

AFE #: PO#:

Manifest #: 426882

Manif. Date: 12/19/2019 TALON/LPE, LTD. Hauler:

Driver Truck #

Card # Job Ref#

Ticket #:

700-1090710

Bid #: Date: O6UJ9A000AM5 12/19/2019

MARATHON OIL COMPANY

% Oil

Weight

Generator: Generator #:

44736 Well Ser. #:

Well Name: MARINER FEE 23 28 19 WA Well #: 010H

MR/HR

Field:

Field #: NON-DRILLING Rig: County EDDY (NM)

H₂S

Facility: CRI

Lab Analysis:

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards PCI/GM

Cell pΗ CI %Solids Cond. 50/51 0.00 0.00 0.00

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

	MSDS Information	_ RCRA Hazardous Waste Analysis	Process Knowledge	 Other (Provide description above)
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Driver/ Agent Signature

R360 Representative Signature

TDS

Customer Approval

Approved By:	 Date: _	



Name Melocy Sun	mation
Name [[[COCY OUT]	Jan_
Phone Na 574 - 370 - 94	782

perator No		313	NO.	1000	00
perator No perators Name Marathon		Permit/RRC No. Lease/Well Name & No	Mariner	4200	82 2 3 28 19
ldress		County API No			010# AV
ty, State, Zip		Rig Name & No.	30-015	5-9973	SQ
one No.		AFE/PO No		(N)	
EXEMPT E&P Waste/Service Ident Based Mud			ite type in daireis or c INJECTABLE WATERS	cubic yaros)	
Produced Water (1	Flow back (Non-Injectable) Non-Injectable) ter/Waste (Non-Injectable) LY		Washout Water (Injectal Completion Fluid/Flow b Produced Water (Injecta Gathering Line Water/W OTHER EXEMPT WASTES	ack (Injectable) ble) aste (Injectable)	ocuss of the wastel
ASTE GENERATION PROCESS: DRILLING	COMPLETION		PRODUCTION	GATHER	RING LINES
NON	N-EXEMPT E&P Waste/Service Ident	dfication and Amou	nt		
All non-exempt E&P waste must be analys on-Exempt Other	sed and be below the threshold limi), Ignitability, Corrosivity n Non-Exempt Waste Lis		- u
JANTITY	3 BARRELS	L - LIQUID	Y - YAR	RDS	t - EACH
	RCRA Hazardous Waste Analysis		Other (Provide Description		ng hatardous warte
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MARATHON OIL COMPANY Customer:

CRI3930 Customer #:

MELDOY SANJARI Ordered by:

AFE #:

PO #: Manifest #:

426889 12/19/2019 Manif. Date:

Hauler: Driver

TALON/LPE, LTD. **ERNESTO** 003

Truck # Card# Job Ref# Ticket #: Bid #:

700-1090720 O6UJ9A000AM5 12/19/2019

MARATHON OIL COMPANY Generator:

Generator #:

Date:

Well Ser. #: 44736

MARINER FEE 23 28 19 WA Well Name:

010H

Well #:

Field: Field #:

Rig: **NON-DRILLING** County EDDY (NM)

Facility: CRI

Product / Servi	ice					Q	uantity	Units				
Contaminated	Soil (RCF	RA Exempt)				20.00	yards				
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/G	3M	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0							

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource	Conservation and Recovery Act (RCRA) and the	US Environmental Protection Agency's July
1988 regulatory determination, the above descri	ribed waste is:	

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information	_ RCRA Hazardous Waste Analysis	Process Knowledge	 Other (Provide description above)
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Approved By:		Date:	
	*		



	QQ)	gany	Mar	Cor	tact I	ntar	matic	in.
Name	11	le	100	y	39	n	ar	1

	7-	OFFICE AND		Phone No.	
	N	GENERATO		30-015 g	2 <u>6</u> 889
perator No.	Per—		ermit/RRC No. ease/Well	30-013 9	19751
perators Name MARA	104		lame & No.	MARINER	tee 23-7819
ddress			ounty		Fee 23-2819 WA # 010H
		A	PI No.		
ty, State, Zip			ig Name & No		
hane No			FE/PO No		
	and the second second				upati i
BI Based Muds	NON-INJECTABLE WATERS	AND REAL PROPERTY AND ADDRESS OF THE PARTY AND	ume next to w	vaste type in barrels or cubic ya	rds)
ni Based Cuttings	Washout Water (Non-Inje			Washout Water (Injectable)	
Vater Based Muds	Completion Fluid/Flow bad			Completion Fluid/Flow back (Inje	ectable)
later Based Cuttings roduced Formation Solids	Produced Water (Non-Inje			Produced Water (Injectable)	
ank Butturns	Gathering Line Water/Was	erie inton-infectable)		Gathering Line Water/Waste (In) OTHER EXEMPT WASTES (type and	
&P Contaminated Soft V	Truck Washout (exempt w	aste)			Elastra de la Companya de la Company
ias Plant Wasto					
ASTE GENERATION PROCESS:	DRILLING	COMPLETION		PRODUCTION	GATHERING LINES
	NON-EXEM	PT E&P Waste/Service Identi	Scation and Am	ount	
All non-exem:	a E&P waste must be analysed and	be below the threshold limit	s for toxicity (TC	(LP), Ignitability, Corrosivity and Rea	ctivity
n-Exempt Other			*please select fr	om Non-Exempt Waste List on bac	c k
JANTITY	B - BARR	EIC	HOLIE	2.	
			- LIQUID	20 (YARDS)	E - EACH
reby certify that according to the Resource d is (Check the appropriate classification)	Conservation and Recovery Act (RC	RA) and the US Environmen-	tal Protection Ap	gency's July 1988 regulatory determ	ination, the above described waste
	y non-hazradous, non-oilfeild waste		ie Department c	of Public Safety (the order, documer	ntatidn of non-hazardous waste
oetennin	tion and a description of the water	nust accompany this form)			
(PRINT) AUTHORIZED AGENTS HAME		DAT		\$1	GNATURE
	10.0	TRANSPORT	ER		
nsporter's PHCIVI'X		D	river's Name	FRURSTA	CAREACLE.
nsporter's me PHelvix tress 7410	y) PF	10	rint Name	E ICH ISI O	C Price AG NO
	L. L. I.		hone Na	-	
ane No				1	-
			ruck No.	A-00	
ereby certify that the above named material	(s) was/were picked up at the chang	rator's site listed above and		/	ted below.
12/19/19 MHHASHI DATI	DRIVER'S SIGNATURE		14/1	9/19	
TRUCK TIME STA		NEDOCAL FAC	11 1774	DE OFFI	DROVER'S MONATORE
TRUCK TIME STA	AIVIP	DISPOSAL FAC	ILITY	-	ING AREA
l:OUT:				Name/No.	0101
Name/		ni	Ar-		
mít No Halfway Facility / NM1-006		-	hone No	575-393-1079	
6601 Hobbs Hwy US 62/180	Mile Marker 66 Carlsbad, NM 88220				
NORM READINGS TAKEN? (Circ	le One) YES	5	If YES, was readi	ing > 50 micro roentgens? (circle on	e) YES NO
PASS THE PAINT FILTER TEST? (Circ	le One) YES	NC)		
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		TANK BOTTO	MS		
Feet	Inches			-	
Gauge			BSA	&W/BBLS Received	, BS&W (%)
d Gauge				Free Water	
ceived				Total Received	
I hereby could, that the above load materia	has been friede annie	PTED DENIED /	If donied where		
- PM above idao illateria	17/16	DAN	If denied, why		>
-11/	16111	TIU	1		
AMI (PRINT)	DATE	TITL	Ĕ.		CHATCHE



Customer:

Customer #:

MELODY SANJARI

AFE #: PO #:

Ordered by:

Manifest #: 426890

Manif. Date: 12/19/2019 TALON/LPE, LTD. Hauler:

0.00

ABEL

48

Driver Truck #

Card # Job Ref#

0.00

MARATHON OIL COMPANY

CRI3930

Date:

Ticket #:

Bid #:

700-1090721 O6UJ9A000AM5 12/19/2019

Generator:

MARATHON OIL COMPANY

Generator #:

44736 Well Ser. #:

Well Name:

MARINER FEE 23 28 19 WA

Well #: 010H

Field:

County

Field #: Rig:

NON-DRILLING EDDY (NM)

Facility: CRI

Lab Analysis:

Delivery Asset Cinnet

Product / Service						Qı	antity U	nits			
Contaminated Soil (I	RCRA	Exempt)					20.00 ya	ards			
Ce	di .	nН	CI	Cond	% Solide	TDS	DCI/GM	MD/LD	LISE	9/ Oil	\\/oight

Generator Certification Statement of Waste Status

0.00

50/51

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

0

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSD3 Information	_ RCRA Hazardous waste Analysis	_ Process Knowledge	_ Other (Provide description above)
--------------------	---------------------------------	---------------------	-------------------------------------

Driver/ Agent Signature	K360 Representative Signature
Customer Approval	

Approved By:	 Date:	
	 _	



Phone No.

		GENERATOR	NO. 4268	390
Operator No Operators Name MRNTH Address	40 14	Permit/RRC No. Lease/Well Name & No. County API No.	NO. \$268 30-95-49 MILINE FRE WH # 0	
City, State, Zip		Rig Name & No		
Phone No		AFE/PO No.		
Oll Based Muds	&P Waste/Service Identification and NON-INJECTABLE WATERS	I Amount (place volume next to wa	aste type in barrels or cubic yards)	
Oil Based Crittings Water Based Mods	Washout Water (Non Injectable		Washout Water (Injectable)	
Water Based Cuttings	Completion Fluid/Flow back (No Produced Water (Non-Injectable		Completion Fluid/Flow back (Injectable) Produced Water (Injectable)	
Produced Formation Solids Fank Bottoms	Gathering Line Water/Waste (No INTERNAL USE ONLY		Gathering Line Water/Waste (Injectable) CITHER EXEMPT WASTES (type and generalism	process of the wasta)
&P Contaminated Soil	Truck Washout (exempt waste)		Services and State 1 and 12 Les John and Keller (dept.	process at the whater
VASTE GENERATION PROCESS:	DRILLING	COMPLETION	PRODUCTION GATH	ERING LINES
	11	P Waste/Service Identification and Amor		IMINO EUNES
All non-exemp	pt E&P waste must be analysed and be be			
on-Exempt Other		*please select fro	m Non-Exempt Waste List on back	
UANTITY	B - BARRELS	L - LIQUID	2-	E - FACH
hereby certify that according to the Resource	Conservation and Recovery Act (RCPA) 2	and the HS Equipmental Brotection Age	20 (4 1000)	
determina	y non-hazradous, non-oilfeild waste that i ation and a desciption of the waste must a	accompany this form)	Public Safety (the order, documentation of r	non-hazardous waste
(PHINT) AD BORIZED AGENTS NAVEC	7	RANSPORTER	DOMATURE	
ansporter's	SAT A CO			-
ame TALOY LI	₽£	Dríver's Name	Abel Lagar	da
Idress		Print Name Phone No.		
none No.	1	Truck No.	0- 48 N	
nereby certify that the above named material	11 1	— s site listed above and delivered without		/
12/19/19	Nust .		19/19 10/	_
SHOWENTDATE	DHIVER'S SIGNATURE	DELTVEN	(Albert	SIGNATURE
TRUCK TIME STA	AMP	POSAL FACILITY	RECEIVING A	REA
L OUT.			Name/No. ()	
			0.0	51
e Name/		Phone No.	575-393-1079	151_
e Name/ rmit No. Halfway Facility / NM1-006	Mile Marker 66 Carlsbad, NM 88220	Phone No.	575-393-1079	151
2 Name/ mit No. Halfway Facility / NM1-006 dress 6601 Hobbs Hwy US 62/180 NORM READINGS TAKEN? (Circ	le One) YES (NO)	If YES, was reading		IS I
e Name/ rmit No. Halfway Facility / NM1-006 dress 6601 Hobbs Hwy US 62/180	le One) YES YES	IF YES, was reading NO		IS NO
te Name/ termit No. Iddress Halfway Facility / NM1-006 6601 Hobbs Hwy US 62/180 NORM READINGS TAKEN? (Circ	le One) YES YES	If YES, was reading		IS I
te Name/ ermit No. Halfway Facility / NM1-006 ddress 6601 Hobbs Hwy US 62/180 NORM READINGS TAKEN? (Circ PASS THE PAINT FILTER TEST? (Circ st Gauge	le One) YES NO	If YES, was reading NO NNK BOTTOWS	g > 50 micro roentgens? (circle one) W/BBLS Received BS&	FES
te Name/ ermit No. Halfway Facility / NM1-006 ddress 6601 Hobbs Hwy US 62/180 NORM READINGS TAKEN? (Circ PASS THE PAINT FILTER TEST? (Circ	le One) YES NO	If YES, was reading NO NNK BOTTOWS	g > 50 micro roentgens? (circle one)	
te Name/ termit No. Halfway Facility / NM1-006 Iddress 6601 Hobbs Hwy US 62/180 NORM READINGS TAKEN? (Circ PASS THE PAINT FILTER TEST? (Circ t Gauge td Gauge sceived	le One) YES NO YES Inches	IF YES, was reading NO NK BOTTOMS BS&1	g > 50 micro roentgens? (circle one) W/BBLS Received BS& Free Water	
e Name/ rmit No. Idress Halfway Facility / NM1-006 6601 Hobbs Hwy US 62/180 NORM READINGS TAKEN? (Circ PASS THE PAINT FILTER TEST? (Circ Feet t Gauge d Gauge	le One) YES NO YES Inches	IF YES, was reading NO NNK BOTTOWS BS&1	g > 50 micro roentgens? (circle one) W/BBLS Received BS& Free Water	



MARATHON OIL COMPANY Customer:

CRI3930 Customer #:

Ordered by: MOLOLY SANJOVI

426883

JUAN

2

12/20/2019

TALON/LPE, LTD.

AFE #:

PO #: Manifest #:

Manif, Date:

Hauler: Driver Truck #

Card # Job Ref# Ticket #: Bid #:

Date:

Generator:

700-1090976 O6UJ9A000AM5 12/20/2019

MARATHON OIL COMPANY

Generator #:

44736 Well Ser. #:

Well Name: MARINER FEE 23 28 19 WA

Well #: 010H

Field: Field #:

Rig: **NON-DRILLING** County EDDY (NM)

Facility: CRI

Product / Servi	ce					Q	uantity	Units			
Contaminated :	Soil (RCR	A Exempt))				20.00	yards			
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/G	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) a	and the US Environmental Protection Agency's July
1988 regulatory determination, the above described waste is:	

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ M	SDS Information	_ RCRA Hazardous	Waste Analysis	Process Knowledge	 Other (Provide description above)
-----	-----------------	------------------	----------------	-------------------	---

Driver/ Agent Signature	R360 Representative Signature
Customer Approval	

Approved By:	Date:



Name Man Contact Information or		0 1 1	6	
Name 1919 19 19 19 19 19	de	any Man Co	ntact Informati	on core
hone No 574 - 330 . 92 82	Name	1900	id coul	21001

	11	GENERAT	OR.	NO. 1260	00
perator No. Maro	thon	GLIVEIMI	Permit/RRC No	J NO. 4268	83
*			Lease/Well	il con in on to	12 10
zrators Name			Name & No	140111101 100	1 2 200
fress			County	- V	JA BOIC
/, State, Zip			API No	30.015-44	7360
one No.			AFE/PO No	Now	1060
FXFMPT	&P Waste/Service Ident	ification and Amount Inlare v		waste type in barrels or cubic yards)	
Based Muds	NON-INJECTABLE V		Junie Heat to v	INJECTABLE WATERS	
Based Cuttings ater Based Mods	Washout Water (N			Washout Water (Injectable)	
ater Based Cuttures	Produced Water (N	Flow back (Non-Injectable) (Ion-Injectable)		Completion Fluid/Flow back (Injectable) Produced Water (Injectable)	
aduced Formation Solids	Gathering Line Wat	ter/Waste (Non-Injectable)		Gathering Line Water/Waste (Injectable)	
nk Bottoms P Contaminated Soil	Truck Washout (ex			OTHER EXEMPT WASTES (type and generation p	process of the waste
s Plant Waste	Truck Washout lex	empt waster			
ASTE GENERATION PROCESS:	DRILLING	COMPLETION		PRODUCTION GATHE	RING LINES
		I-EXEMPT E&P Waste/Service Ider			
	ot E&P waste must be analys	ed and be below the threshold lin		CLP), Ignitability, Corrosivity and Reactivity.	
-Exempt Other			*please select fi	from Non-Exempt Waste List on back	
ANTITY	0	BARRELS	i Licolora	20 (YARDS)	T EACH
reby corbfy that according to the Resource	Conservation and Recovery	Act (RCRA) and the US Environme	ntal Protection A	Agency's July 1988 regulatory determination, the	above described waste
d is (Check the appropriate classification)					
RCRA EXEMPT: Oil field w		I gas exploration and production of	perations and an	re not mixed with non-exempt waste (R360 Acco	epts certifications on a pe
_		s that does not exceed the minimu	m standards for s	waste hazardous by characteristics established	in RCRA regulations, 40 C
				mended. The following documentation demonst	
T EIVIERGENCI NOIV-OLLEGIEU:		d waste that has been ordered by waste must accompany this form		of Public Safety (the order, documentation of n	on-liazardous Waste
removing authorized in a calculation of the			IAU	SIGNATURE	
		TRANSPOR	TER		
nsporter's Talon	LPE		Driver's Name	Juan	
ress	<i>DC 1 -</i>		Print Name		
-			Phone No.	1 1	
ne No			Truck No.	11/20/16	1102
	Its) was higher nighted up at th	on Conventor's eith listed above as		out incident to the disposal facility listed below.	4-6
	(3) was there pieces up at th	e dentification 3 site lighted above an	12/2	10/19 - Juan / Com	100
SHIPMENT DATE	DRIVER'S SIGNATURE		DEUV	DRIVERS	SIGNATURI
TRUCK TIME STA	AMP [DISPOSAL FAC	CILITY	RECEIVING A	REA,
:OUT:				Name/No.	1
Name/ mit No. Halfway Facility / NM1-006			Plione No.		, 0,
	Mile Marker 66 Carlsbad, NN	4 99770		575-393-1079	
NORM READINGS TAKEN? (Circ		(NO)	W. W. G.		
MODINI REMBINDS IMPERIL (CILL	7		If YES, was read	ling > 50 micro roentgens? (circle one)	'ES NO
·		,			
PASS THE PAINT FILTER TEST? (Circ	1				_
·	inche	TANK BOTTO			
PASS THE PAINT FILTER TEST? (Circ	inche	TANK BOTTO	DIVIS	S&W/BBLS Received BS&	W (%)
PASS THE PAINT FILTER TEST? (Circ	inche	TANK BOTTO	DIVIS	Free Water	W (%)
PASS THE PAINT FILTER TES1? (Circ	inche	TANK BOTTO	DIVIS		W (%)
PASS THE PAINT FILTER TEST? (Circ Feet Gauge Gauge sived	Inche	TANK BOTTO	DIVIS BS	Free Water Total Received	W {%}
PASS THE PAINT FILTER TEST? (Circ		TANK BOTTO	DIVIS	Free Water Total Received	W [%]



MARATHON OIL COMPANY Customer:

CRI3930 Customer #: **MELODY SANJARI**

AFE #: PO #:

Ordered by:

Manifest #:

426885

ABEL

A48

Manif. Date: 12/20/2019 Hauler: TALON/LPE, LTD.

Driver Truck #

Card # Job Ref#

700-1090987 Ticket #: O6UJ9A000AM5 Bid #:

Date: 12/20/2019 Generator: MARATHON OIL COMPANY

Generator #:

Well Ser. #: 44736

Well Name: MARINER FEE 23 28 19 WA

Well #: 010H

Field: Field #:

Rig: **NON-DRILLING** EDDY (NM) County

Facility: CRI

Product / Servi	ce					Q	uantity Uni	ts			
Contaminated	Soil (RCR	(A Exempt))				20.00 yard	ds			
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: (Oil field waste which is non-hazardous th	at does not exceed the mir	nimum standards for waste hazardous by
			vaste as defined in 40 CFR, part 261, subpart D, as
amended. The following d	ocumentation is attached to demonstrate	the above-described waste	e is non-hazardous. (Check the appropriate items):
_ MSDS Information	RCRA Hazardous Waste Analysis	Process Knowledge	Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature
Customer Approval	

Approved By:	 Date:	



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

5743709 Page 54 of 149

Name	ME	LODY	SMERT
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(PLEASE PRINT) Phone No. GENERATOR NO. 426885 NO. Permit/RRC No. Operator No Lease/Well MARATHON Operators Name Name & No. Address County API No City, State, Zip Rig Name & No AFE/PO No. Phone No. EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards) Oil Based Minds NON-INJECTABLE WATERS INJECTABLE WATERS Oil Based Cuttings Washout Water (Non-Injectable) Washout Water (injectable) Water Based Meds Completion Fluid/Flow back (Non-Injectable) Completion Fluid/Flow back (Injectable) Water Based Cuttings Produced Water (Non-Injectable) Produced Water (Injectable) Produced Formation Solids Gathering Line Water/Waste (Non-Injectable) Gathering Line Water/Waste [Injectable] OTHER EXEMPT WASTES trype and generation process of the wastel Tank finttonis. INTERNAL USE ONLY E&P Contaminated Soil Truck Washout (exempt waste Gas Plant Waste WASTE GENERATION PROCESS DRILLING COMPLETION PRODUCTION GATHERING LINES NON-EXEMPT E&P Waste/Service Identification and Amount All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity Non Exempt Other *please select from Non-Exempt Waste List on back DUANTITY R - BARRELS L LIQUID I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification) Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per RERA EXEMPT: load basis only) Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR ACRA NON-EXEMPT: 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as nonhazardous is attached. (Check the appropriate items as provided) RCRA Hazardous Waste Analysis Other (Provide Description Below) Emergency non-hazradous, non-oilfeild waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste EMERGENCY NON-OILFEILD: determination and a desciption of the waste must accompany this form) TRANSPORTER Transporter's TALON LPE Driver's Name Phel Lagarde Name Address Print Name Phone No Truck No. I hereby certify that the above named material(s) was/were pic/ed up at the Generator's site listed above and delivered without in dent to the disposal facility listed relays 12/20/19 TRUCK TIME STAMP DISPOSAL FACILITY RECEIVING IN: OUT: Name/No. Site Name/ Phone No. Halfway Facility / NM1-006 575-393-1079 Permit No Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220 NORM READINGS TAKEN? (Circle One) NO If YES, was reading > 50 micro roentgens? (circle one) YES PASS THE PAINT FILTER TEST? (Circle One) YES TANK BOTTOMS Feet Inches 1st Gauge BS&W/BBLS Received B5&W (%) 2nd Gauge Free Water Received Total Received

CEPTED

DENIED

If denied, why?



Customer: MARATHON OIL COMPANY Customer #:

CRI3930

MELONY SAGNERS

AFE #:

Driver

PO #: Manifest #:

Ordered by:

426884 12/20/2019 Manif. Date:

TALON/LPE, LTD. Hauler: OBED

49

Truck # Card# Job Ref# Ticket #:

700-1090988

Bid #: Date:

O6UJ9A000AM5 12/20/2019

Generator:

44736

MARATHON OIL COMPANY

Generator #: Well Ser. #: Well Name:

MARINER FEE 23 28 19 WA 010H

Well #:

Field: Field #:

Rig: County **NON-DRILLING**

EDDY (NM)

Facility: CRI

Lab Analysis:

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

CI Cond. 50/51 0.00 0.00 0.00

20.00 yards **TDS** PCI/GM

MR/HR

H2S

% Oil Weight

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

%Solids

0

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_	MSDS Information	_ RCRA Hazardous Waste Analysis	Process Knowledge	 Other (Provide description above)
---	------------------	---------------------------------	-------------------	---

Driver	/ Agen	t Signa	ture
--------	--------	---------	------

R360 Representative Signature

Customer Approval

Approved By:	Date:
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R369	٨	NEW MEXICO NON-HAZARDOU (PLEASE			Name Mane	lan Contact Informati
	-	GENER	ATOR	I NO	one No.	01
Operator No	100	GENERA	Permit/RRC No Lease/Well	30-0		36
Operators Name MCUY Address	rathon		Name & No- County	WH #	101017	
City, State, Zîp			API No Rig Name & No	marin	er be	35 181
Phone No.	EVELLOY ED DAY	200-11-120-11	AFE/PO No.			
Oil Based Mods	A STATE OF THE PARTY OF THE PAR	vice Identification and Amount (pl	ace volume next to v	INJECTABLE WATERS	cubic yards)	
Oil Based Cuttings Water Based Muds		ut Water (Non-Injectable) etion Fluid/flow back (Non-Injectable)		Washout Water (Inject Completion Fluid/Flow		
Water Based Cuttings		red Water (Non-Injectable)		Produced Water (Inject		
Produced Formation Solids Lank Bottoms		ing Line Water/Waste (Non-Injectable)		Gathering Line Water/V	CONTRACTOR OF PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT ASSESSMENT OF THE PERSONS ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT A	care of the warth.
E&P Contaminated Soil	TOTAL CONTROL OF THE PARTY OF T	Vashout (exempt wante)		I TO LINE TO THE	S (type end generation pro	LESS OF THE WALSTON
Gos Plant Waste WASTE GENERATION PROCE.	SS: DRILLI	NG COMPLE	TION	PRODUCTION	GATHER	'NG LINES
		NON-EXEMPT E&P Waste/Service				110
	III non-exempt E&P waste mu	ist be analysed and be below the thresh			y and Reactivity.	
lon-Exempt Other			'please select fr	rom Non-Exempt Waste L	ist on back	
QUANTITY /)	B - BARRELS	ב-נויסוווס	Y - YA	Mixs	E FACEL
hereby certify that according to	the Resource Conservation ar	nd Recovery Act (RCRA) and the US Envi	ironmental Protection A	gency's July 1988 regulato	ry determination, the a	have described waste
EMERGENCY NON-OILFEILE	determination and a desci-	s, non-oilfeild waste that has been orde ption of the waste must accompany thi		, , , , , , , , , , , , , , , , , , , ,		THE HOLL WALL
(PRINT) AUDIONIZEO AGLE	E s name	TRANCR	OPTED		SIGNATURE	
ransporter's	1	TRANSP	URIER	100		
ame TALON	U LPE		Driver's Name	Ched Pe	rice	
ddress			Print Name			
hone No.			Phone No.	A 1101		- 1
-	mad material(s) was have nie	ked up at the Generator's site listed ab	Truck No.	2-91	111	//
12/20/19		SIGNATURE	12-2	20-19	(belf	- Ce
	IME STAMP	DISPOSAL	FACILITY	-	ECEIVING ARI	EA
N:ite Name/	OUT:			Name/No	0.	
ermit No. Halfway Facility		Cadebad NAS UDITAL	Phone No.	575-393-1079		
0001110003111	y US 62/180 Mile Marker 66 0 TAKEN? (Circle One)	res	If YES was road	ing > 50 micro roentgens?	(circle one) YES	NO NO
PASS THE PAINT FILTE		(YES)	NO NO	ing > 30 meto roenigens:	(circle offe) 183	NO
	Feet	TANK BO	TTOMS			
st Gauge		Inches	BS	&W/BBLS Received	BS&W	(%)
nd Gauge				Free Water		
eceived				Total Received		
thereby coffify that the aloge	load material has been (circle	one): ACCEPTED DENIE	D // denied, why		1	
hall	/	6.20.79 C	Steeren	(6)		
NAME (PRINT)		DATE	DITE		SIGHARIUM	



Customer: MARATHON OIL COMPANY Customer #:

CRI3930

Ordered by: **MELONY SAGERS**

AFE #: PO #:

Manifest #: 415539 12/20/2019

Manif. Date: TALON/LPE, LTD. Hauler: Driver

ERNESTO 3

Truck # Card # Job Ref# Ticket #: Bid #:

700-1090991

O6UJ9A000AM5 Date: 12/20/2019

MARATHON OIL COMPANY

Generator: Generator #:

44736 Well Ser. #:

Well Name: MARINER FEE 23 28 19 WA

Well #: 010H

Field: Field #:

Rig: **NON-DRILLING** County EDDY (NM)

Facility: CRI

Product / Service Quantity Units Contaminated Soil (RCRA Exempt) 20.00 yards

Cell CI pН Cond. %Solids **TDS** PCI/GM MR/HR H2S % Oil Weight 50/51 0.00 0.00 0.00 Lab Analysis: 0

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ [MSDS Information	_ RCRA Hazardous	Waste Analysis	_ Process K	Inowledge	_ Other (Pro	vide description a	lbove)
-----	------------------	------------------	----------------	-------------	-----------	--------------	--------------------	--------

Driver/ Agent Signature	R360 Representative Signature
	•

Customer Approval

Driver/ Agent Signature

Approved By:	<u> </u>	Date:



574 3709 Page 58 of 149

Company Man Contact Information

Name Helory SAGRS. Phone No.

	100	GENERATOR	2.15	NO. 4155	39
Operator No.		Permit/RRC	No. 32	-05 493	3%
Operators Name HAIZA	Thon	Lease/Well Name & No	16	FRINING F	ce 2328/
Address		County	2	WH #O	10 12
		API No		July FI D	1017
City, State, Zip			N/-		
Phone No.		Rig Name 8			
		AFE/PO No			
	THE RESERVE AND PARTY OF THE PA	cation and Amount (place volume nex	Committee of the Commit	ATT THE RESERVE TO THE PARTY OF	
Oil Based Muds Oil Based Cuttings	Washout Water (No		INJECTABLE WA	All the latest the lat	
Water Based Muds		r-mjectanie) ny back (Non-Injectable)	Washout Water Coundetion Flui	d/Flow back (Injectable)	
Water Based Cuttings	Produced Water (No		Produced Wate		
Produced Formation Solids Tank Bottoms		r/Waste (Non-Injectable)		Water/Waste (injectable).	
E&P Contaminated Soil	Truck Washout (exer		TOTHER EXEMPT	WASTES (type and generatio	n process of the waste)
Gas Plant Waste		The transity			
WASTE GENERATION PROCESS:	DRILLING	COMPLETION	PRODUCTION	GAT	-IERING LINES
All popularyment		EXEMPT E&P Waste/Service Identification an		manish and Dunasista.	
Non-Exempt Other	ear waste must be analysed	and be below the threshold limits for toxici	lect from Non-Exempt		
QUANTITY	п .	BARREIS L- LIQUID	20		F. FACIL
2.00.00					E - EACH
hereby certify that according to the Resource C oad is (Check the appropriate classification)	Conservation and Recovery A	ct (RCRA) and the US Environmental Protect	ion Agency's July 1988 r	egulatory determination, t	he above described waste
		gas exploration and production operations a	nd are not mixed with n	on-exempt waste (R360 Ad	ccepts certifications on a per
load basis o					
		hat does not exceed the minimum standard			
		e as defined by 40 CFR, part 261, subpart D,	as amended. The follow	ing documentation demoi	istrating the waste as non-
Patrony	s attached. (Check the appro				
MSDS Infor	mation RCI	RA Hazardous Waste Analysis	Other (Provide D	escription Below)	
		waste that has been ordered by the Departr aste must accompany this form)	nent of Public Safety (th	e order, documentation of	non-hazardous waste
(ANNI) AUG-TROPO START (SEOF		itati		SIGNATURI	
			-1	SIGHATOR	
ransporter's		TRANSPORTER			
ame TALON	LPE	Dríver's Nar	ne E 17.	YESTO P.	41204010
ame / MCON	LPE		ne EIZI	yes To Ci	9 RCACLC
ame / MCON	LPE	Print Name	E E IZI	yes To Ci	9 RCACLC
ddress / NLON	LPE	Print Name Phone No.			4 RCACLC
Address PALON thone No.		Print Name Phone No Truck No	19-	003	
hone No. hereby certify that the above named material(s		Print Name Phone No Truck No Generator's site listed above and delivered	JA − without incident to the c	003	
hone No. hereby certify that the above named material(s) was/were nicked+up at the	Print Name Phone No Truck No Generator's site listed above and delivered	JA − without incident to the c	003	
Phone No. thereby certify that the above named material(s) was were picked up at the	Print Name Phone No. Truck No. Generator's site listed above and delivered	19-	6 6 3 Iisposal facility listed belo	
Address Phone No. hereby certify that the above named material(s) was were picked up at the	Print Name Phone No Truck No Generator's site listed above and delivered	JA − without incident to the c	6 6 3 Iisposal facility listed belo	S SIGNATURE
thone No. hereby certify that the above named material(s 12/20/19 Support of the DATE TRUCK TIME STAL) was were picked up at the	Print Name Phone No. Truck No. Generator's site listed above and delivered	vithout incident to the o	o o 3 lisposal facility listed belon DBN/G RECEIVING /	S SIGNATURE
hone No. hereby certify that the above named material(s 12/20/9 SEPMENT DATE TRUCK TIME STAI N: OUT:) was were picked up at the	Print Name Phone No. Truck No. Generator's site listed above and delivered	vithout incident to the o	0 0 3 lisposal facility listed being	S SIGNATURE
thone No. thereby certify that the above named material(s 12/20/19 TRUCK TIME STAIN: OUT:) was were picked up at the	Print Name Phone No. Truck No. Generator's site listed above and delivered	vithout incident to the o	o o 3 lisposal facility listed belon DBN/G RECEIVING /	S SIGNATURE
TRUCK TIME STAI N: OUT: ite Name/ ermit No. Halfway Facility / NM1-006	DRIVER'S SIGNATURE	Print Name Phone No. Truck No. Generator's site listed above and delivered DISPOSAL FACILITY Phone No.	without incident to the of the last of the	o o 3 lisposal facility listed belon DBN/G RECEIVING /	S SIGNATURE
thone No. thereby certify that the above named material(s 12/20/9 TRUCK TIME STAI N: OUT: ite Name/ ermit No. Halfway Facility / NM1-006 ddress G601 Hobbs Hwy US 62/180 M	DRIVER'S SIGNATURE MP	Print Name Phone No. Truck No Generator's site listed above and delivered DISPOSAL FACILITY Phone No.	Nam	RECEIVING A	SS SIGNATURE AREA
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Name Address Phone No. Hereby certify that the above named material(s 12	DRIVER'S SIGNATURE MP Glile Marker 66 Carlsbad, NM One) YES One) FES	Print Name Phone No. Truck No. Generator's site listed above and delivered DISPOSAL FACILITY Phone No. 88220 If YES, was	Nam 575-393-1079 reading > 50 micro roer	RECEIVING And the land the lan	YES NO
Address Phone No hereby certify that the above named material(s 12/2/9 TRUCK TIME STAI N: OUT: ite Name/ ermit No. ddress Halfway Facility / NM1-006 6601 Hobbs Hwy US 62/180 M NORM READINGS TAKEN? (Circle PASS THE PAINT FILTER TEST? (Circle st Gauge and Gauge eccived	DRIVER'S SIGNATURE MP tile Marker 66 Carlsbad, NM One) YES Inches	Print Name Phone No. Truck No. Generator's site listed above and delivered DISPOSAL FACILITY Phone No. 88220 If YES, was NO TANK BOTTOMS	Nam 575-393-1079 reading > 50 micro roer BS&W/BBLS Received Free Wate Total Received	RECEIVING And the land the lan	YES NO
thone No. hereby certify that the above named material(s 12/2/9 TRUCK TIME STAI N: OUT: ite Name/ ermit No. ddress Halfway Facility / NM1-006 G601 Hobbs Hwy US 62/180 M NORM READINGS TAKEN? (Circle PASS THE PAINT FILTER TEST? (Circle st Gauge and Gauge eceived	DRIVER'S SIGNATURE MP tile Marker 66 Carlsbad, NM One) YES Inches	Print Name Phone No. Truck No. Generator's site listed above and delivered DISPOSAL FACILITY Phone No. 88220 If YES, was	Nam 575-393-1079 reading > 50 micro roer BS&W/BBLS Received Free Wate Total Received	RECEIVING And the land the lan	YES NO



Customer:

Customer #:

Ordered by:

AFE #: PO #:

Manifest #: 12/20/2019

Manif. Date: Hauler:

Driver Truck # 02

Card # Job Ref#

MARATHON OIL COMPANY

CRI3930

MELDOY SANJARI

426886

TALON/LPE, LTD. JUAN

Ticket #:

700-1091050

Bid #: Date:

O6UJ9A000AM5 12/20/2019

Generator: MARATHON OIL COMPANY

Generator #: Well Ser. #:

44736 Well Name:

MARINER FEE 23 28 19 WA

Well #: 010H

Field: Field #:

NON-DRILLING Rig: County EDDY (NM)

Facility: CRI

Product / Service Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

CI Cond. %Solids **TDS** PCI/GM MR/HR H2S Weight % Oil 50/51 0.00 Lab Analysis: 0.00 0.00 0

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver	Agont	Signaturo

R360 Representative Signature

Customer Approval

Approved By:	Date:

1	GEN		Phone No 17 - 3	TU IT
Operator No. Harathi Operators Name Address City, State, Zip Phone No.		Permit/RRC No. Lease/Well Name & No County API No Rig Name & No AFE/PO No.	No. 42688 Varinar Fea 3 28 19 WA 30-015 1/1/3	6 000 500
Oil Based Mods Oil Based Cuttings Water Based Mods Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Soil Gas Plant Waste NASTE GENERATION PROCESS:	P Waste/Service Identification and Amount NON-INJECTABLE WATERS Washout Water (Non-Injectable) Completion Flind/Flow back (Non-Injectal Produced Water (Non-Injectable) Gathering Line Water/Wasto (Non-Injectal INTERNAL USE ONLY Truck Washout (exempt waste) DRILLING COM	lINIEC Wash Comp Produ ible) Gathe	ABLE WATERS ABLE WATERS but Water (injectable) etion Fluid/Flow hack (injectable) and Water (injectable) ring Line Water/Waste (injectable) EXEMPT WASTES (type and generation process UCTION GATHERIN	
All non-exempt	KON-EXEMPT E&P Waste/S E&P waste must be analysed and be below the th	service Identification and Amount treshold limits for toxicity (TCLP), igni-	ability, Corresivity and Reservity,	
fon Exempt Other			Exempt Waste List on back	
QUANTITY	B - BARRELS	L~ LIQUID	20 (YARDS)	E - EACH
	non-hazradous, non oilfeild waste that has been on and a desciption of the waste must accompan	y this form) DATF	seety (the urder, ductimentation or ribining	areidona Maste
ransporter's A20N ddress	LFE	Driver's Name Print Name Phone No. Truck No.	JUAN	
hone No. hereby certify that the above named material(s)	and the state of t	4.7	it to the disposit treility list/d below.	
	DRIVER'S SIGNATURE	4.7	it to the disposit treiting list of by J. C. P. P. C. P. P. C.	&D
SHEPMENT DATE TRUCK TIME STAN OUT:	DRIVER'S SIGNATURE	4.7	10 -1 11	ED TERMS
TRUCK TIME STAN N: OUT: te Name/ ermit No. Halfway Facility / NM1-006	ORIVER'S SIGNATURE MP DISPOSA ille Marker 66 Carlsbad, NM 88220 One) YES NO	AL FACILITY Phone No. 575-36	RECEIVING ARE/	TIEMS:



MARATHON OIL COMPANY Customer:

CRI3930

415543

ABEL

A48

12/20/2019

Customer #:

Ordered by:

Manifest #:

Manif. Date:

AFE #:

Hauler:

Driver

Truck #

Card #

Job Ref#

PO #

MELODY SANJARI

TALON/LPE, LTD.

Ticket #: Bid #:

700-1091053 O6UJ9A000AM5

Date:

12/20/2019

Generator:

Well Ser. #: 44736

MARATHON OIL COMPANY

Generator #:

MARINER FEE 23 28 19 WA

Well Name: Well #:

MR/HR

010H

Field:

Field #:

Rig: County NON-DRILLING EDDY (NM)

H2S

% Oil

Weight

Facility: CRI

Product / Service

Lab Analysis:

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell CI %Solids Cond. **TDS** PCI/GM

50/51 0.00 0.00 0.00 0

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information	_ RCRA Hazardous Was	ste Analysis _ Process Kr	nowledge _ Other	(Provide description above)
--------------------	----------------------	---------------------------	------------------	-----------------------------

Driver	/ Agent	Signa	ture
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R360 Representative Signature

Customer Approval

Approved By:	Date:	



Page 62 of 149

50-015-44736

Company Man Control

SENERATOR	R369	NEW MEXIC	CO NON-HAZARDOUS PLEASE F			Name MA /	Tan Contact Information
Processor Name Processor Name Proce			GENERA	ATOR	1		2 1-
EXEMPT E&P Waster/Service Industrification and Amount (place volume next to wasto type in barrels or cubic yords) INDUSTRICAL WATER INDUSR WATER INDUSTRICAL WATER INDUSTRICAL WATER INDUSTRICAL WATER INDUSTRICAL WATER INDUSTRICAL WATER INDUSTRICAL WATER INDUSR WATER INDUSTRICAL WATER INDUSTRICAL WATER INDUSTRICAL WATER INDUSTRICAL WATER INDUSTRICAL WATER INDUSTRICAL WATER IND	Operators Name Address City, State, Zip	HOH		Permit/RRC No. Lease/Well Name & No County API No Rig Name & No.		46734 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	44736 2 E 232814 01017
NON-EXCENTED Water Seed Market Washington Water (Design Indicated Cartiflate) Water Based Cantillange Washington Water (Design Indicated Indica		&P Waste/Service Identifi	ration and Amount Inla		vasta tuna in harrels or	cubic upredel	Section 1
NON-EXEMPT REAP Waste/service Identification and Amount All non-exempt CERP waste must be analysed and be below the threshold limits for troidicy (TCLP), implicibility, Corrosivity and Receivity, Ion-Exempt Other **Prices's exect from Nan-Exempt Waste list on back B-BARRILS L-LIQUID L-Y (MAGS) L-EACH Herefly certify that according to the Resource Convervation and Receivity. B-BARRILS L-LIQUID L-Y (MAGS) L-EACH Herefly certify that according to the Resource Convervation and Receivity. B-BARRILS L-LIQUID L-Y (MAGS) L-EACH Herefly certify that according to the Resource Convervation and Receivity. B-BARRILS L-LIQUID L-LIQUI	Oil Based Muds Oil Based Cuttings Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Soil	NON-INJECTABLE W. Washout Water (Not Completion Fluid/Fle Produced Water (Not Gathering Line Wate INTERNAL USE ONLY Truck Washout (exer	ATERS n-Injectable) nv back (Non-Injectable) n-Injectable) n/Waste (Non-Injectable) npt waste)		INJECTABLE WATERS Washout Water (Injecta Completion Fluid/Flow t Produced Water (Injecta Gathering Line Water/W ÖTHER EXEMPT WASTES	bie) pack (Injectable) pible) vaste (Injectable) (Itype and generation pr	
All non-exempt ESP waste must be analysed and be below the threshold limits for roadicty (TCLP), initiability, Corrosivity and Reactivity. Discharge select from Road-Exempt Waste list on hours. Please RELES L-UQUID Y (NAIGS) L-EACH Benefity certify that according to the Resource Conversation and Recovery Act (ECRA) and the US Environmental Protection Agency's laby 1988 regulatory determination, the showe described waste load as Epock the appropriate classification. INCRA DETERMIT: Of lied waste speciated from oil and gos exploration and production operations and are not maked with non-exempt waste (R350 Accepts certification on a per load basis only) Of lied waste which is non-hazardous waste to a defined by 40 CFR, port 261, subpart 0, as amended. The following documentation demonstrating the waste as a non-hazardous by the categories established in RCRA regulations, 40 CFR JOLIZ-1261-23, or island-basis only) MSDS information RCRA host part (b, bck the appropriate terms as provided) MSDS information RCRA therefore the subject of the RCRA therefore the reinfinium standards for waste hazardous by their acceptance demonstrating the waste as non-hazardous by a provided basis only) Trick No. Trick No. Trick No. TRANSPORTER Diver's Name Phone No. Truck No. TRUCK TIME STAMP OUT: DISPOSAL FACILITY Name/No. TRUCK TIME STAMP OUT: Name/No. TRUCK TIME STAMP OUT: Name/No. TANK BOTTOMS Feet Include State and Company (circle one) YES TANK BOTTOMS Feet Include State and Company (circle one) YES TANK BOTTOMS Feet Include State and Company (circle one) YES TANK BOTTOMS Free Water Provided Description Below) Truck No. Truck	Whate deliver who dead.					U GATHER	ING LINES
TRANSPORTER Micha Extraction Display Di		t E&P waste must be analyse	d and be below the thresho	ld limits for toxicity (T	CLP), Ignitability, Corrosivity		
IRCRA EXEMPT: Oth field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only) Oth field wastes which is non-hazardous that does not exceed the reinimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR RCRA NON-EXEMPT: Oth field waste which is non-hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided) MSDS information RCRA Hazardous Waste Analysis Other (Provide Description Below) EMPORTANCE OF TRANSPORTER TRANSPORTER TRANSPORTER Driver's Name Phone No. Truck	QUANTITY	В	BARRELS	t - Fignid	200 Y (YAI	RDS	E - EACH
TRANSPORTER TRANSPORTER TRANSPORTER Driver's Name Print Name Phone No. Truck Time STAMP N: OUT: TRUCK Time STAMP N: OUT: Name/No. TRUCK Time STAMP N: OWITES SIGNATURE Name/No. TRUCK Time Signature Name/No. TRUCK	EMERGENTY NON-OILERLO: Emergenc	ynon-hazradous, non-oilfeild	waste that has been ordere	ed by the Department form)		documentation of no	n-hazərdous waste
TRUCK TIME STAMP N: OUT: TRUCK TIME STAMP N: OUT: Name/No. TRUCK TIME STAMP N: OUT: Name/No. Name/No. Name/No. Name/No. Name/No. Name/No. Name/No. Name/No. Name/No. Name	N W M Mariantina and A maria		TRANSPO	No.		SIGNATION	
TRUCK TIME STAMP OUT: N: OUT: The Name/ Johns No. Halfway Facility / NM1-006 G601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220 NORM READINGS TAKEN? (Circle One) PASS THE PAINT FILTER TEST? (Circle One) TANK BOT OWS St Gauge and Gauge BS&W/BBLS Received BS&W (%) Free Water	hone No.	s) was/werd pulked up at the		Driver's Name Print Name Phone No. Truck No. ve and delivered with	A	facility (seed below.	
te Name / ermit No. ddress			DISPOSALI	ACILITY	-	ECEIVING AP	
Feet Inches st Gauge BS&W/BBLS Received BS&W (%) nd Gauge Free Water	ite Name/ ermit No. Halfway Facility / NM1-006 ddress 6601 Hobbs Hwy US 62/180 i NORM READINGS TAKEN? (Circle	e One) YES		If YES, was read	575-393-1079		s (NO)
BS&W/BBLS Received BS&W (%)				TOMS			
	st Gauge nd Gauge	inches		BS	Free Water	BS&V	/ (%)



Customer:	MARATHON	OIL	COMPA

Customer #: CRI3930

TALON/LPE, LTD.

Ordered by: **MELODY SANJARI**

AFE #:

PO #: Manifest #:

415542 Manif. Date: 12/20/2019

003

ERNESTO

Hauler: Driver Truck #

Card # Job Ref# YN

Ticket #: Bid #:

700-1091056 O6UJ9A000AM5

Date: 12/20/2019 MARATHON OIL COMPANY

Generator: Generator #:

Well Ser. #: 44736

Well Name: MARINER FEE 23 28 19 WA

Well #: 010H

Field: Field #:

Date:

NON-DRILLING Rig: County EDDY (NM)

Facility: CRI

Product / Servi	ce					Q	uantity Unit	s		Year	
Contaminated	Soil (RCF	RA Exempt)				20.00 yard	ls			
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						
Generator Cert	ification	Statement	of Waste S	tatus					A 1980		
X RCRA Exem RCRA Non-l characteristics est amended. The fo MSDS Inform	pt: Oil Fie Exempt: O tablished in Illowing do	ld wastes ge il field wast n RCRA reg ocumentation	enerated from e which is no ulations, 40 n is attached	n oil and gas on-hazardous CFR 261.21- to demonstra	that does not e 261,24 or listed ate the above-do	exceed the red hazardous escribed wa	minimum standa s waste as defin aste is non-haza	ards for waste ed in 40 CFR, rdous. (Check	hazardous b part 261, su the appropr	y bpart D, as	2.
Driver/ Agent S	ignature				R360 R	lepresent	ative Signatuı	re		VERTER	
Customer Appr	roval	System (b lang		Y-170.00	a di vis	DESK!	
				THIS	IS NOT	AN IN	IVOICE!				

Approved By:

57143709782

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information
Name He lock 52 GRS.

			Phone No.	
perator No.		Permit/RRC No. Lease/Well	30-05-4755 HARINEY FEE WH 010	4 2
perators Name HARATR	ON	Name & No	MARINEY Fee	232811
ldress		County	W/ H 0/0	12
		API No.		
5 ·				
y, State, Zip		Rig Name & No.	-	
one No		AFE/PO No.	-	
EXEMPT E&P W	aste/Service Identification and A	mount (place volume next to	waste type in barrels or cubic yards)	
Based Muds	NON-INJECTABLE WATERS		INJECTABLE WATERS	
Based Cuttings iter Based Muds	Washout Water (Non-Injectable)		Washout Water (injectable) Completion Fluid/Flow back (injectable)	_
iter Based Cuttings	Completion Fluid/Flow back (Non-Ir Produced Water (Non-Injectable)	i(ectable)	Produced Water (Injectable)	
oduced Formation Salids	Gathering Line Water/Waste (Non-	injectable)	Gathering Line Water/Waste (Injectable)	
nk Bottoms	INTERNAL USE ONLY		OTHER EXEMPT WASTES Itype and generated	in process of the waste)
P Contaminated Soil	Truck Washout (exempt waste)			
SPIENT WASTE	DRILLING	COMPLETION	DODUCTION CAT	DEDUNC LINES
STE GENERATION PROCESS.	DRILLING	COMPLETION	PRODUCTION GATE	HERING LINES
All non-exempt E&P		laste/Service Identification and Am the threshold limits for toxicity (To	nount CLP), Ignitability, Corrosivity and Reactivity.	
-Exempt Other			from Non-Exempt Waste List on back	
NTITY	B - BARRELS	L - LIQUID	20 Y(YARDS)	E - EACH
eby certify that according to the Resource Conse	rvation and Recovery Act (RCRA) and	the US Environmental Protection A		the above described waste
is (Check the appropriate classification)				
RCRA EXEMPT: Oil field wastes g	enerated from oil and gas exploration	and production operations and ar	re not mixed with non-exempt waste (R360 A	ccepts cerbfications on a p
load basis only)				
RCRA NON-EXEMPT Oil field waste w	nich is non-hazardous that does not e	ceed the minimum standards for	waste hazardous by characteristics established	ed in RCRA regulations, 40 (
			mended. The following documentation demo	nstrating the waste as non-
	ched. (Check the appropriate items as		7	
MSDS Information	on RCRA Hazardous \	Waste Analysis	Other (Provide Description Below)	
·				
			of Public Safety (the order, documentation o	f non-hazardous waste
determination a	nd a desciption of the waste must acco	impany this form)		
DHINT) BRITHCHILLY OCCURS ASSES		DATE	SIGNATURE	
	TRA	ANSPORTER		
ne TALON C	PF	Driver's Name	ERHESTO C	Apredalic
ress		Print Name	- 1c17ESIU C	MA COM CONTRACTOR
-		Phone No.		
ne No.		Truck No.	A-003	
reby certify that the above named material(s) was	/were picked up at the Degerator's sin	te listed above and delivered without	byt incident to the disposal facility listed bala	W.
12/20/19	(4)	12/	20/19	
SHIPLEIN DAGE	DRIVER'S SIGNATURE	dia	PERVOATE DRIVE	IUS SIGNATURE
TRUCK TIME STAMP	DISPO	OSAL FACILITY	RECEIVING	ARFA
:OUT;				SIET
			Name/No. SC	101
Name/ nit No. Halfway Facility / NM1-006		Phone No.	0.001 10.00	
	1 65 6 11 1 11 1 11 1 11 11		575-393-1079	
6601 Hobbs Hwy US 62/180 Mile M	arker 66 Carlsbad, NM 88926			
NORM READINGS TAKEN? (Circle One	YES NO.	If YES, was read	ding > 50 micro roentgens? (circle one)	YES NO
PASS THE PAINT FILTER TEST? (Circle One	(YES)	NO		
	TAN	IK BOTTOMS		
Feet	Inches			
Sauge		85	5&W/BBLS Received BS	5&W (%)
Gauge			Free Water	1,00
gived		L Same	Total Received	
heret or lift that the above foad material has be	een (circle one): ACCEPTED	DENIED If denied, why		
()[1]	10 1/20	Hom		
NAME (PRINT)	12120		SUNTATION	1



MARATHON OIL COMPANY Customer: Customer #:

415544

ABEL

48

12/20/2019

AFE #:

Hauler:

Driver Truck #

Card #

Job Ref#

Manifest #:

Manif. Date:

PO #:

CRI3930

Ordered by:

MELODY SAGNERS

TALON/LPE, LTD.

Date: 12/20/2019

Generator: MARATHON OIL COMPANY

700-1091129

O6UJ9A000AM5

Generator #:

Ticket #:

Bid #:

Well Ser. #: 44736

Well Name: MARINER FEE 23 28 19 WA

Well #: 010H

Field: Field #:

Rig: **NON-DRILLING** County EDDY (NM)

Facility: CRI

Product / Service Quantity Units Contaminated Soil (RCRA Exempt) 20.00 yards Cell CI pН Cond. %Solids **TDS** PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 ō

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information _ RCRA Hazardous	Waste Analysis	Process Knowledge	Other	(Provide descrip	ption above
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Driver/ Agent Signat	ture
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R360 Representative Signature

Customer Approval

Approved By:	Date:	



STE MANIFEST	Company Man Contact Info	armation
	Name MFCODX	Sages

				FIR	ліе по.	
Operator No.	2 = 1/	GENERAT	Permit/RRC No Lease/Well		ナータネラ	4
perators Name ####################################	THOP		Name & No County API No.	MARCA	# OID IS	E L
y, State, Zip one No			Rig Name & No			
EXEM	PT E&P Waste/Service Identification	ation and Amount (place	volume next to	waste type in barrels or	cubic yards)	
Based Muds	NON-INJECTABLE WA	III CANCELL CO.		INJECTABLE WATERS	White the same of	
Based Cuttings ater Based Milds	Washout Water (Non-	-Injectable) v back (Non Injectable)		Completion Fluid/Flow		
nter Based Cuttings	Produced Water (Non			Produced Water (Inject		
oduced Formation Solids ok Bottoms		/Waste (Non-Injectable)		Gathering Line Water/V	PERSONAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN 2 IN C	
P Contaminated Soil	INTERNAL USE ONLY Truck Washout (exem	pt waste)		OTHER EXEMPT WASTES	(type and generation pro	ocess of the waste)
s Plant Waste						
ASTE GENERATION PROCESS:	DRILLING	COMPLETION	ı	PRODUCTION	GATHER	ING LINES
All non-e	NON-EX xempt E&P waste must be analysed a	SEMPT E&P Waste/Service Ide			and Panetinity	173 (1)
-Exempt Other	Tempe con Wilder Made at analyses	the Be Below the threshold h		from Non-Exempt Waste L		
ANTITY	В - В	BARRELS	l - LIQUID	20 × 6	RDS	E-EACH
eby certify that according to the Resi	ource Conservation and Recovery Act	t (RCRA) and the US Environn	nental Protection	Agency's July 1988 regulator	v determination, the	above described wastu
	gency non-hazradous, non-oilfeild w rmination and a desciption of the wa			t of Public Safety (the order,	documentation of no.	n-hazardous waste
BARNAL UTGECOMA DI YOTH CENERAL		TRANCROF	DATE		SIGNATURE	
sporter's	10-	TRANSPOR	District Control of the Control of t			
ne TMOP	LPE		Driver's Name	Abd La	1716 3	
ress			Print Name	4		
			Phone Na	OZIA ZELE		
ne No			Truck No_	A-48		
eby certify that the above named ma	rerial(s) was/were picked up ay the G	senerator's site listed above a	ind delivered with		facility light below.	
12/26/19 -	EMIVER'S MINATURE		-142	IVERY DATE	MA DRIVER'S SI	GNATUR:
TRUCK TIME	STAMP	DISPOSAL FA	CILITY	R	ECEIVING AB	
0U	T:			Name/No	. CX	7
Name/			731 81		0) '
nit No Halfway Facility / NM1-	006		Phone No.	575-393-1079		
ress 6601 Hobbs Hwy US 62	/180 Mile Marker GG Carlsbad, NM 8	8220				
NORM READINGS TAKEN? PASS THE PAINT FILTER TEST?	/ 1	₩	If YES, was rea	iding > 50 micro roentgens?	(circle one) YE	s NO
		TANK BOTT	and the second			
Feet	Inches					
Gauge Gauge			0	S&W/BBLS Received	BS&W	/ (%)
eived				Free Water Total Received		
	·	7		/		
ingeby certify that the above load ma	terial has been (circle one):	CCEPTED DENIED	If denied, wh	ly?		
INDOV	800	to on				
1/ LAL	1000	TI CHE	u			



MARATHON OIL COMPANY Customer:

CRI3930 Customer #:

415541

OBED

49

12/20/2019

TALON/LPE, LTD.

Ordered by: **MELONY SAGNERS**

700-1091132 O6UJ9A000AM5

Date: Generator: 12/20/2019

MARATHON OIL COMPANY

Generator #:

Ticket #:

Bid #:

44736

Well Ser. #:

MR/HR

MARINER FEE 23 28 19 WA

Well Name: Well #:

010H

Field:

Field #:

NON-DRILLING Rig: EDDY (NM) County

Facility: CRI

Product / Service Quantity Units

AFE #:

Manifest #:

PO #:

Driver

Truck #

Card#

Job Ref#

Contaminated Soil (RCRA Exempt)

20.00 yards PCI/GM

H2S % Oil Weight

Lab Analysis:

Cell pΗ CI Cond. %Solids 50/51 0.00 0.00 0.00 0

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): Other (Provide description above) MSDS Information RCRA Hazardous Waste Analysis

_ WISDS IIIIOIIIIation	_ KCKA Hazardous waste Aliatysis	_ Frocess Knowledge	_ Other (Provide description abo

Driver	/ Agent	Signa	ture
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R360 Representative Signature

TDS

Customer Approval

Approved By:	Data	
approved by.	 Date:	

C-138

SANGEMENTS OF THE PROPERTY OF	(PLEASE PI	RINT)	-1	Name	
	GENERA	TOP	Pho NO.	one No.	4
Operator No Aller Tifly	In oil company	Permit/RRC No.	30-0	141224	7 36
	1	Lease/Well		- 1-1-	
Operators Name		Name & No.	WH #	01017	
Address		County	WH #	-1017	
		API No.	Marining	r Fee 2	21819
City, State, Zip		Rig Name & No.	14 CCV IVIC	I IN HI	21001
Phone No.		AFE/PO No.	wa +	1011	
Laboration and the same of the	P Waste/Service Identification and Amount (place	e valume next to v	THE PARTY OF LABOR PARTY OF THE	cubic yards)	STATE OF THE STATE
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Water Based Muds	Completion Fluid/Flow back (Non-Injectable)		Completion Fluid/Flow	. ,	
Water Based Cuttings Produced Formation Solids	Produced Water (Non-Injectable) Gathering Line Water/Waste (Non-Injectable)		Produced Water (Inject Gathering Line Water/V		
Tank Bottoms	INTERNAL USE ONLY		OTHER EXEMPT WASTES	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I	tess of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)				
Gas Plant Waste WASTE GENERATION PROCESS:	DRILLING COMPLETIC	ON [PRODUCTION	GATHER	NG LINES
All non-exempt 8	NON-EXEMPT E&P Waste/Service I &P waste must be analysed and be below the threshold			rand Reactivity	
Non-Exempt Other	waste made actually see and see opini the timeshold		from Non-Exempt Waste L		
				5	
DUANTITY 20	B - BARRELS	L - LIQUID	CY-YA	RDS	E - EACH
hazardous is MSDS Inforn		261, subpart D, as ar	Other (Provide Descripti	omentation demonstra	ting the waste as non-
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MARATHON OIL COMPANY Customer:

CRI3930

426887

JUAN

2

12/20/2019

Customer #:

Manifest #:

Manif, Date:

AFE #:

PO #:

Hauler:

Driver

Truck #

Card #

Job Ref#

Ordered by: **MELONY SAGNERS**

TALON/LPE, LTD.

Generator:

Ticket #:

Bid #:

700-1091147 O6UJ9A000AM5 12/20/2019

Date:

MARATHON OIL COMPANY

Generator #:

Well Ser. #: 44736

Well Name:

MARINER FEE 23 28 19 WA

Well #:

010H

Field:

Field #: Rig: County

NON-DRILLING EDDY (NM)

Facility: CRI

Product / Servi	ce					Q	uantity l	Jnits			
Contaminated :	Soil (RCR	A Exempt)					20.00 y	ards			
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GN	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information	_ RCRA Hazardous Waste Analysis	Process Knowledge	Other (Provide description above
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Driver/ Agent Signature	R360 Representative Signature
Customer Approval	
	THIS IS NOT AN INVOICE!

Approved By:		Date:	
	*	D 4.0.	



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N.	rhedon	GENERAT		NO.	426887	1
erator No	10000		Permit/RRC No Lease/Well	11	1	
erators Name			Name & No	MON INO!	100	~.
dress			County	23 25	3 ic wil	0101
			API No.	/ ~-	1	2
ty, State, Zip				30.010	4473	10
			Rig Name & No.		1100	w -
one No.			AFE/PO No.		PUL	
	(EMPT E&P Waste/Service to	lentification and Amount (place	volume next to	waste type in barrels or o	ubic yards)	Aller
il Based Muds	NON-INJECTAL		TO STATE OF	INJECTABLE WATERS	Blaha Night Farter	MILES NO.
il Based Cuttings Fater Based Muds		er (Non-Injectable) uid/Flow back (Non-Injectable)	_	Washout Water (Injectal Completion Fluid/Flow I.		
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oduced Formation Solids		Water/Waste (Non-Injectable)		Gathering Line Water/W		
ink Brittoms	INTERNAL USE			OTHER EXEMPT WASTES	(type and generation process	of the wastel
&P Contaminated Soil as Plant Waste	Truck Washon	it (exempt waste)				
ASTE GENERATION PROCESS:	DRILLING	[7] COMPLETION	v -	I phophiction	TT CATHERING	LINEC
TOTE GENERATION PROCESS.	DKILLING	COMPLETION	4	PRODUCTION	GATHERING	LINES
A STATE OF THE STA		NON-EXEMPT E&P Waste/Service Id				
All n	on exempt E&P waste must be as	nalysed and be below the threshold li	imits for taxicity (I	CLP), Ignitability, Corrosivity	and Reactivity.	
n-Exempt Other			*please select ,	from Non-Exempt Waste Li	st an back	
JANTITY		B - DARRELS	L - LIQUID	20 (YAI		o comi
						E - EVICH
		overy Act (RCRA) and the US Environn	mental Protection /	Agency's July 1988 regulator	y determination, the abov	e described waste
id is (Check the appropriate classif	7. 7					
HUBBUEXEMINE		il and gas exploration and production	n operations and a	re not mixed with non-exem	pt waste (R360 Accepts ce	ertifications on a p
	oail hasis only)					
		rdous that does not exceed the minin				
		is waste as defined by 40 CFR, part 2	61, subpart D, as a	mended. The following docu	mentation demonstrating	the waste as non
	nazardous is attached. (Check the	appropriate items as provided)				
	Empiritancy pon-baseadous Hone	oilfeild waste that has been ordered t	by the Department	of Rublic Safatu Itha arder	decuerons attion of non-ba	zaedniu waita
I LIMEKGENCY NUN-OILFEILD:		f the waste must accompany this for		or tubic since (the blue),	nocumentation of norma	2010003 Waste
[09847] (0036300) (536532) (5	2331		DATE		SIGNATURE	
		TRANSPOR	Percentage of the last	1	Sicherone	
Manustaria -		INANSPOR	VIEW			
me ALCE	LIF		Driver's Name	JUA	N	
dress			Print Name		15	
			Phone No.	- the	-7	
one No.			Truck No.	1- 40	-	
ereby certify that the above name	l material(s) was/were picked up	at the Generator's site listed above a	and delivered with	out incident to the disposal.	gellity listed Voloy	
			121	20/19 -	TUPE UPP	TE
SHIPMENT DATE	DRIVER'S SIGNATUR	RE	DET	IVENY SATE	DRIVER'S SIGNATI	nsk
TRUCK TIM	IE STAMP	DISPOSAL FA	CILITY	RI	ECEIVING AREA	
		D.01 00/121/	t work and it is	Name/No		
	OUT:			Name/NC	. 00	
Name/	1841 005		Phone No.	775 202 1070		
mit No. Halfway Facility / N				575-393-1079		
dress 6601 Hobbs Hwy U	S 62/180 Mile Marker 66 Carlsha	200				
NORM READINGS TAR	CEN? (Circle One) YES	~ (19)	If YES, was rea	ding > 50 micro roentgens?	(circle one) YES	NO
PASS THE PAINT FILTER T	EST? (Circle One)	6	NO			
		TANK BOTT	OMS			
Fee	at t	Inches	01110	_		
t Gauge		- Total Control	В	S&W/BBLS Received	BS&W (%)	
d Gauge				Free Water	330,44 (70)	
ceived				Total Received		
bereby certify that the above loa	d material has been (circle one):	ACCEPTED DENIE	If denied, wh	() sy	-	
ACCV	12-1	Je119 ml	MAN	((/		
NAME (PRINT)	102	DATE	Hite		Senotese	



Customer:	MARATHON OIL COMPANY
Customer #:	CRI3930

415540

OBED

49

12/21/2019

TALON/LPE, LTD.

AFE #:

PO#:

Hauler:

Driver

Truck #

Card #

Job Ref#

Manifest #:

Manif. Date:

Ordered by: **MELONY SAGNERS**

Date:

Generator:

Ticket #:

Bid #:

700-1091374 O6UJ9A000AM5

12/21/2019 MARATHON OIL COMPANY

Generator #:

Well Ser. #: 44736

MARINER FEE 23 28 19 WA

Well Name: Well #:

010H

Field:

Field #: Rig: County

NON-DRILLING EDDY (NM)

Facility: CRI

Product / Service	e					Q	antity Unit	s			4 1 2 1	
Contaminated S	oil (RCR	A Exempt)					20.00 yard	ls				*0
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight	
Lab Analysis:	50/51	0.00	0.00	0.00	0							-1

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- \underline{X} RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

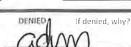
_ MSDS Information	_ RCRA Hazardous Waste Analysis	Process Knowledge	 Other (Provide description above
--------------------	---------------------------------	-------------------	--

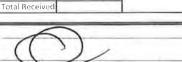
Driver/ Agent Signature	R360 Representative Signature
Customer Approval	
	THIS IS NOT AN INVOICE!

Approved By:	Date:	
.pp.10101 - J ₁₀		

R360	NEW ME	EXICO NON-HAZARDO (PLEAS	US OILFIELD WAST E PRINT)	re manifest	Company Man Cor Name What	ntact Informati
introsi		TV		Pho	one No. Sourcer	5
		GENE	RATOR	NO.	415540	
Operator No. Operators Name Address	thon		Permit/RRC No Lease/Well Name & No. County	mari	ver fere	EG
City, State, Zip Phone No			API No Rig Name & No AFE/PO No	_ 0 _0		
EXE	MPT E&P Waste/Service Ider	ntification and Amount (place volume next to	waste type in barrels or	cubic yards)	
Oil Based Muds Oil Based Cuttings Water Based Cuttings Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Soil Gas Plant Waste	Produced Water	(Non-Injectable) I/Flow back (Non-Injectable (Non-Injectable) Vater/Waste (Non-Injectabl NLY		Washout Water (Injecta Completion Fluid/Flow I Produced Water (Injecta Gathering Line Water/W OTHER EXEMPT WASTES	oack (Injectable) able)	he waste)
WASTE GENERATION PROCESS:	DRILLING	COMP	ETION [PRODUCTION	[] GATHERING LII	NES
	NO	DN-EXEMPT E&P Waste/Ser	vice Identification and A	Amount		133
	n-exempt E&P waste must be anal	lysed and be below the thre				
Non-Exempt Other			please selec	t from Non-Exempt Waste L	ist on back	
QUANTITY 70		B - BARRELS	t - rignid	C-AV	Ros	E - EACH
EMERGENCY NON-QUEFUD. Er	izardous is attached. (Check the a ISDS Information ————————————————————————————————————	RCRA Hazardous Waste Ar	nalysis dered by the Departmen	Other (Provide Descripti		dous waste
ALTHURA O MADRICA ITRIBRO.	KO.	TDANC	PORTER		SIGNATURI	
Transporter's	12.	INANS		60		
Name /ALON	LPE		Driver's Name Print Name	CV allas		
Address			Phone No	575 768	3428	
Phone No.			Truck No.	1-119		
Hereby certify that the above named		t the Generator's site listed	above and delivered wit	hout incident to the disposal	facility listed below.	
				20-19-	11	
SHIPMENT DATE	DRIVER'S SIGNATURE	T STORES	Transition and the second	LLIALKA DYJE	DRIVER'S SIGNATURE	
TRUCK TIM	E STAMP DUT:	DISPOSA	L FACILITY	Name/No	ECEIVING AREA	
Site Name/ Permit No. Halfway Facility / NA	M1-006		Phone No.	575-393-1079	V	
t citing (148)	62/180 Mile Marker 66 Carlsbad,	NM 88220				
NORM READINGS TAKE	N? (Circle One) YES	NO	If YES, was re	eading > 50 micro roentgens?	(circle one) YES	NO
		TANK B	OTTOMS			







BS&W (%)

1st Gauge

2nd Gauge Received

Inches

BS&W/BBLS Received

Free Water



Permian Basin

MARATHON OIL COMPANY Customer:

CRI3930

393299

JOSE

12/23/2019

AFE #:

Hauler:

Driver

Truck #

Card#

Job Ref#

Manifest #:

Manif. Date:

PO #:

Customer #: Ordered by: **MELODY SANJARI**

Date:

Ticket #:

700-1092059

O6UJ9A000AM5 Bid #:

Generator:

12/23/2019

MARATHON OIL COMPANY

Generator #:

Well Ser. #: 44736

MARINER FEE 23 28 19 WA

Well Name:

010H

Well #:

Field:

Field #:

Rig: County

NON-DRILLING EDDY (NM)

Facility: CRI

Product / Service						Q	uantity (Jnits			
Contaminated Soil (RCRA Exempt)							20.00 y	ards ards			
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GN	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

G MANNYS TRUCKING LLC

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
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_ MSDS Information _ RCRA H	azardous Waste Analysis	Process Knowledge	Other (Provide description above)
-----------------------------	-------------------------	-------------------	-----------------------------------

Driver/ Agent Signature	R360 Representative Signature
Customer Approval	
	THIS IS NOT AN INVOICE!
Approved By:	Date:



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Co	упенско	Man Con	lact Infor	mation
Name	1101	Odl	Da	mation NGT
Name	- IC	uly	00	O W

GENERATOR Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 393299 Personal No. 3932999 Personal No. 393299 Personal No. 3932999 Personal No. 39329999 Person	Strylary O			Phone No.	
County C		GENE		NO. 39329	99
TREAT OF THE PROPERTY OF THE P	Operators Name Marathon	1 OIL	Lease/Well Name & No.		TB WATER
All Season Customs Mode Statisfications Mo	V samuel and a same	1 89620	Rig Name & No.	30 015 44 736	
Coll Based Cuttings Worker Based Must Based Worker Based Based Worker Based Worker WORKER EERFOR WORKER Based Worker WORKER EERFOR WORKER Based Worker WORKER EERFOR WORKER Based Based Worker Based Must Worker Based Must Worker Based Must Worker Based Must Worker Based Worker WORKER EERFOR WORKER Based Worker Worker Based Must Worker Bas	The second secon	THE PARTY OF THE P	CONTRACTOR OF THE PARTY OF THE		
NON-EXEMPT ESP Wastermost Diservented Representation and Amount All non-exempt RSP wastermost be analysed and be below the threshold interior for court (TUL). Ignificially, Correptly and Recetivity, Non-Exempt Other **Please select from Non-Exempt Waste list on pack **Please select from Non-Exempt Waste list on pack list on pack **Please select from Non-Exempt Waste list on pack list on pack **Please select from Non-Exempt Waste list on pack **Please select from Non-Exempt Waste list on pack list on pack **Please select from Non-Exempt Waste list on pack **Please select from Non-Exempt Waste list on pack **Please select from Non-Exempt Waste list on pack **Please select from	Oil Based Cuttings Water Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Soil	Washout Water (Non-Injectable) Completion Fluid/Flow back (Non-Injectable) Produced Water (Non-Injectable) Gathering Line Water/Waste (Non-Injectable) INTERNAL USE ONLY	(e) (Co Pri	ishout Water (Injectable) mpletion Fluid/Flow back (Injectable) nduced Water (Injectable) thering Line Water/Waste (Injectable)	rocess of the waste)
All non-exempt RRP waste must be analysed and be below the threshold Initial for toactify (TCLP). Imminishing, Correspitly and Reactivey. **Retear select from Non-Exempt Waste list on house.** **Please select from Non-Exempt Waste list waste list on house.** **Please select from Non-Exempt Waste list waste list on house.** **Please select from Non-Exempt Waste list waste list waste list on please on the second waste and the internet on the second waste exemption on the second waste list on house.** **Please Select from Non-Exempt Waste first from a please select from Non-Exempt		DRILLING COM	PLETION E PR	ODUCTION GATHE	RING LINES
TRANSPORTER Manny Transporters Transporters			reshold limits for toxicity (TCLP), I		
TRANSPORTER TRANSPORTER TO HOME AND AUTOMOSE A CONTROLL OF CONTR	QUANTITY	B - DARRELS	L - LIQUID	Y-YARDS 20	E - EACH
TRANSPORTER ansporter's time Iddress TRANSPORTER Driver's Name Phone No. Print Name Phone No. 915 540 3350 Truck No Print No. Phone No. 123-19 Simple of the Standing of the Standing of the Generator's site listed above and delivered without micident to the disposal facility listed below. TRUCK TIME STAMP DISPOSAL FACILITY RECEIVING AREA Name/No. 175.393-1079 Phone No. 175.393-1079 Phone No. 175.393-1079 TANK BOTTOMS If YES, was reading > 50 micro roentgens? (circle one) No. TANK BOTTOMS I feet Inches BS8W/BBLS Received BS8W/BBLS Re	determina		this form)		on-hazardous waste
Driver's Name Jose M. Goycuc Print Name Phone No. 915 540 3350 Truck No. 29 Sept. 3350 Truck No. 29 Se	Frankly with the state of the s	TRANS		opplation	
TRUCK TIME STAMP OUT: Receiving AREA OUT: Receiving AREA Name/No. Phone No. 1/2-3/3-1/9 NORM READINGS TAKEN? (Circle One) PASS THE PAINT FILTER TEST? (Circle One) TANK BOTTOMS 1/2-3/3-1/9 DISPOSAL FACILITY RECEIVING AREA Name/No. 1/3-3/3-1079 RECEIVING AREA Name/No. 1/4-3-3/3-1079 RECEIVING AREA Name/No. 1/5-3-393-1079 Received one of the second of the sec	Idress 4 Manny	Trucking LLC	Driver's Name Print Name Phone No.		
N: OUT: Name/No. 50 50 te Name/ trinit No didress		s) was/were picked up at the Generator's site listed	_		HG21271/ITT
Halfway Facility / NM1-006 Phone No	V;OUT: _	MP DISPOSA	L FACILITY	and a	3EA 57
TANK BOTTOMS	rmit No Halfway Facility / NM1-006 Idress G601 Hobbs (lwy US 62/180 N		2/3		ES NO
Free Water	PASS THE PAINT FILTER TEST? (Circi				
d Gauge Free Water				enen de la companya d	
	d Gauge			Free Water	N (%)



Permian Basin

MARATHON OIL COMPANY Customer:

CRI3930 Customer #:

MELODY SANJARI

AFE #: PO #:

Ordered by:

Manifest #:

428085

LUIS

80

Manif. Date: 12/23/2019 CARDENAS TRUCKING

Hauler: Driver Truck #

Card # Job Ref#

Ticket #: Bid #:

700-1092060 O6UJ9A000AM5

Date: Generator:

12/23/2019 MARATHON OIL COMPANY

Generator #:

44736 Well Ser. #:

Well Name:

MARINER FEE 23 28 19 WA 010H

Well #:

Field: Field #:

Rig: County

NON-DRILLING EDDY (NM)

Facility: CRI

Product / Service						Q	uantity Uni	ts			
Contaminated	Soil (RCR	A Exempt))				20.00 yard	ds			
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
I ah Analysis:	50/51	0.00	0.00	0.00	n						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ `	MSDS Information	_ RCRA Hazardous `	Waste Analysis	_ Proce	ss Knowledge	_ 0	ther (Provide	description	above	:)
-----	------------------	--------------------	----------------	---------	--------------	-----	---------------	-------------	-------	----

Driver/ Agent Signature	R360 Representative Signature		
9	 9		
Customer Approval			J. ATT

THIS IS NOT AN INVOICE!

Approved By:		Date:	
	*		

eived by OCD: 1/10	5/2020 8
0	
P366	
14.000001323	
Operator No	
	May
Operators Name	7 -1017
Address	
City, State, Zip	
Phone No	
	EXEMP
Oil Based Moils	
Oil Based Cuttings	
Water Baserl Mods	
Water Based Culbings	
Produced Formation Solids	
Fank Bottoms	
E&P Contaminated Soil	V
Car blancastra	- 6

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Nami Contact Information

Harding C	CENEDATOR	Phone No. Sanjac
Once No.	GENERATOR	No. 428085
Operator No	• / Permit/RRC No Lease/Well	
perators Name Marathon O	Name & No.	Marken CIB
idress	County	Mariner Fel 25-28-19
	API No	2 4 2 1 10
itγ, State, Zip	Rig Name & No	1000 DIII
hone No	AFE/PO No	
EXEMPT E&P Waste/Service In	dentification and Amount (place volume next to	waste type in barrels or cubic yards)
NON-INJECTA	THE RESIDENCE OF THE PARTY OF T	INJECTABLE WATERS
	ter (Non-Injectable)	Washout Water (Injectable)
	luid/Flow back (Non-Injectable) ter (Non-Injectable)	Completion Fluid/Flow back (Injectable) Produced Water (Injectable)
	e Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
ank Bottoms INTERNAL US		OTHER EXEMPT WASTES (type and generation process of the waste)
	ut (exempt waste)	
AN Plant Waste /ASTE GENERATION PROCESS: DRILLING	COMPLETION	PRODUCTION GATHERING LINES
ASTA SEMENTION FROCESS.	L. The state of th	Le rook
All non-exempt E&P waste must be a	NON-EXEMPT E&P Weste/Service Identification and A malysed and be below the threshold limits for toxicity	
on-Exempt Other	*please selec	t from Non-Exempt Waste List on back
UANTITY	B - BARRELS L - LIQUID	20 (-YARDI) E - EACH
ereby certify that according to the Resource Conservation and Reco	overy Act (RCRA) and the US Environmental Protection	Agency's July 1988 repairmenty determination, the above described wast
ad is (Check the appropriate classification)		
RCRA EXEMPLY	oil and gas exploration and production operations and	are not mixed with non-exempt waste (R360 Accepts certifications on a
load hasis only)		
RCRA NON-EXEMPT: Oil field waste which is non-haza	rdous that does not exceed the minimum standards fo	ir waste hazardous by characteristics established in RCRA regulations, 40
		amended. The following documentation demonstrating the waste as not
hazardous is attached (Check th		
MSDS Information	RCRA Hazardous Waste Analysis	Other (Provide Description Below)
-		
I EIVIEKGENCY NON-CILPRILU:	oilfeild waste that has been ordered by the Departmer of the waste must accompany this form)	nt of Public Safety (the order, documentation of non-hazardous waste
Section and a security of	12-23-19	
(PRINT) AUTHORIZED AGERTS NAME	DAIL	SIGNATURE
	TRANSPORTER	
ine Cardens Triding	Driver's Name	Luis Cardenal
dress	Print Name	
34	Phone No.	
one No	Truck No.	75
		_03
ereby certify that the above named material(s) was/were picked up	at the Generator's site listed above and delivered wit	3 -1 (/ /
SHIPMENT DATE DRIVER'S SIGNATU	INE INC.	HIVERY DATE DRIVER'S SOCIATIONS
TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
N:OUT:		Name/No.
	=	Lame, No.
e Name/ rmit No. Halfway Facility / NM1-006	Phone No.	575-393-1079
dress 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsb	ad, NM 88220	
NORM READINGS TAKEN? (Circle One) YES	(If YES, was re	ading > 50 micro roentgens? (circle one) YES NO
PASS THE PAINT FILTER TEST? (Circle One)	NO NO	
	TANK BOTTOMS	
	Inches	
t Gauge nd Gauge		BS&W/BBLS Received BS&W (%) Free Water
eceived		Total Received
I berein cery by that the above load material has been (circle one):	ACCEPTED DENIEN If denied, w	diy?
CI MINIMINA ID	173 XVM	IN/KAT
A Marie Theory of Co	DATE	JUNATUR)
-138 White R 160 ORIGINAL Yellow E	RANSPORTER COPY Pink GENERATOR	SITE COPY Gold RESUM U.S. Versio

C-138



Permian Basin

Customer:

CRI3930

MELODY SANJARI Ordered by:

AFE #: PO #:

Customer #:

428095

JUAN

02

Manif. Date: 12/23/2019 Hauler: PHOENIX ENERGY

Driver Truck #

Manifest #:

Card# Job Ref# MARATHON OIL COMPANY

Ticket #: Bid #:

> Date: Generator:

O6UJ9A000AM5 12/23/2019

700-1092071

MARATHON OIL COMPANY

Generator #:

Well Ser. #: 44736

Well Name:

MARINER FEE 23 28 19 WA 010H

Well #: Field:

Field #: Rig: County

NON-DRILLING EDDY (NM)

Facility: CRI

Product / Service Quantity Units Contaminated Soil (RCRA Exempt) 20.00 yards Cell CI **TDS** Cond. %Solids PCI/GM MR/HR H2S % Oil Weight 50/51 0.00 0.00 0.00 0 Lab Analysis:

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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_	MSDS Information	RCRA Hazardous	Waste Analysis	Process Knowledge	Other (Provide of	descrit	otion a	bove

Driver/ Agent Si	gnature
------------------	---------

R360 Representative Signature	R360	Represer	ntative	Signature
-------------------------------	-------------	----------	---------	-----------

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:	Date:	



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information
Name Ma LODY SNUBARY

	CE	NERATOR	NO A	20005
perator No	GE		3 = 6/5	28095 44736 28233814 401617
Prator No.		Permit/RRC No Lease/Well)0 013	79-1)
erators Name		Name & No.	SOUNAR F	2E237814
iress Material	N	County	W4	#01617
		API No		prill
y, State, Zip		Rig Name & No.	NUN	Drive
ane No		AFE/PO No.		
EXEMPT	E&P Waste/Service Identification and Amo	ount (place volume next to w	aste type in barrels or cubic yar	ds)
Based Muds	NON-INJECTABLE WATERS		INJECTABLE WATERS	Marie Co
Based Cuttings iter Based Meds	Washout Water (Non-Injectable) Completion Fluid/Flow back (Non-Inje	atable:	Washout Water (Injectable) Completion Fluid/Flow back (Injec	tablat
ner Based Cuttings	Produced Water (Non-Injectable)	ctable)	Produced Water (Injectable)	tatne)
aduced Formation Solids	Gathering Line Water/Waste (Non-Ini	ectable)	Gathering Line Water/Waste (Inje	ctable)
nk Bottoms P Contaminated Soil	INTERNAL USE ONLY		OTHER EXEMPT WASTES (type and i	eneration process of the wastel
s Plant Waste	Truck Washout (exempt waste)			
ASTE GENERATION PROCESS:	DRILLING	OMPLETION	PRODUCTION	GATHERING LINES
44.00		ste/Service Identification and Amo		
-Exempt Other	nnt E&P waste must be analysed and be below th		P), Ignitability, Corrosivity and Read on Non-Exempt Waste List on buc	
· wording series	11 - 11/21	pieane select fic	ин жон-елетрі уғаме илі оп вис	
ANTITY	B - BARRELS	L - LIQUID	20 (-YARDS)	€ – ŁACH
reby certify that according to the Resource	ce Conservation and Recovery Act (RCRA) and the	e US Environmental Protection As	ency's July 1988 a military determi	nation, the above described
is (Check the appropriate classification)	, , , , , , , , , , , , , , , , , , , ,		, and a second	y ment of the second control of the
EMERGENCY NON-OILFEILD: determin	nation and a desciption of the waste must accom	pany this form)		
proved auditorithing with lates.	The same of the sa	DATE	SIG	
	TRA	MICDADTED		DATURE
isparter's		NSPORTER	0	HATURE
ne 10.100 L	PE	Driver's Name	Jan Can	
171	DE DOMEAN	Driver's Name	Jan Can	PACILO
171	TIX Energy	Oriver's Name Print Name	Son Can	
Phoen	11x Sural	Oriver's Name Print Name Phone No.	Son Can	
one No.	11x Energy	Driver's Name Print Name Phone No, Truck No.		enculo
ress Phoer	ial(s) was wife picked up at the Generator's site	Driver's Name Print Name Phone No, Truck No.		enculo
ress Phoer	At	Driver's Name Print Name Phone No, Truck No.		entru.
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Permian Basin

Customer:

Ordered by:

ABEL

48

MELODY SANJARI

AFE #:

Manifest #: 428100 Manif. Date: 12/23/2019

Hauler: Driver

Customer #:

Truck # Card # Job Ref#

PO #:

MARATHON OIL COMPANY

CRI3930

PHOENIX ENERGY

Date:

Generator:

Ticket #:

Bid #:

12/23/2019 MARATHON OIL COMPANY

Generator #:

Well Ser. #:

Well Name: MARINER FEE 23 28 19 WA

700-1092073

O6UJ9A000AM5

Well #: 010H

Field: Field #:

NON-DRILLING Rig: EDDY (NM) County

Facility: CRI

Product / Servi	ce					Qı	antity Uni	ts		100	
Contaminated S	Soil (RCR	RA Exempt)					20.00 yard	ds			
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information	_ RCRA Hazardous Waste Analysis	Process Knowledge	Other (Provide description above
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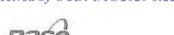
Driver	Agent	Signatur	e.
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R360	Kenr	esenta	ative	Signa	ture

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:	 Date:	
	 20	



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

5743 Page 80 of 149

Company Man Contact Information

Name MELODX SOGARX Phone No.

	GENER	RATOR	NC NC	4281	,00,-,
Operator No		Permit/RRC No. Lease/Well	30-	015-4	4-426
Operators Name MRRATHON	<u></u>	Name & No	MHRI	PER F	RE 2325
Address		County	W	4 #	61017
		API No		# 1	11
Oty, State, Zip		Rig Name & No.	01	10/10/10	- 14
Phone No	6	Α ΓΕ/Ρ Ο Νο.	160	PI	<i>U</i>
Control of the Contro	te/Service Identification and Amount (p		ite type in barrels of	r cubic yards)	
	Washout Water (Non-Injectable)		Washout Water (Inject	table)	
	Completion Fluid/Flow back (Non-Injectable)		Completion Fluid/Flow		
	Produced Water (Non Injectable) ≪ athering Line Water/Waste (Non-Injectable)		Produced Water (Inject Gathering Line Water)		
	INTERNAL USE ONLY	N. Carlotte	OTHER EXEMPT WASTE	5 (type and generation p	oces of the waste)
RP Contamerated Soil ~	Truck Washout (exempt waste)				
ASTE GENERATION PROCESS:	DRILLING COMPLI	ETION	PRODUCTION	[] GATHE	RING LINES
All non-exempt E&P w	NON-EXEMPT E&P Waste/Serv			ty and Reactivity.	
en-Exempt Other	Marie		Non-Exempt Waste		
JANTITY	B - BARRELS	L LIQUID	7016	ARDS)	E - FACH
ereby certify that according to the Resource Conserv	ation and Recovery Act (RCRA) and the US En	vironmental Protection Age	ncy's July 1988 regulate	ory determination, the	above described waste
nd is (Check the appropriate classification)					
RCRA EXEMPT: Oil field wastes ger	nerated from oil and gas exploration and prod	uction operations and are n	at mixed with non-exe	mpt waste (R360 Acce	pts certifications on a pr
I EMERGENLY NON-UILFEILU:	zradous, non-oilfeild waste that has been ord a desciption of the waste must accompany th		aublic Safety (the order	r, documentation of no	on-hazardous waste
	TRANSF	ORTER			
insporter's TNOY / PF	•	Driver's Name	01-1	100	1
insporter's TALOH LPE		Print Name	1000	Lagar	da
PHENIX		Phone No.			
one No.	1	Truck No.	1-48	1	
ereby certify that the above named material(s) was/y	picked up of the Generator's site listed a	- have and delivered without	7	I facility list below.	/
17/23/19	1.AZ	191	123	11.44	
Comotien ban	Aces Signature	OLUVE	DAC	DENVIA'S	NONATURE .
TRUCK TIME STAME	DISPOSAL	FACILITY	F	RECEIVING AF	REA .
:OUT:_/			Name/N	6. 50	11
Name/		Phone No.			101
mit No. Halfway Facility / NM1-006 dress 6601 Hobbs Hwy US 62/180 Mile Mai	dow CC Co. d. Co. J. NIA 1 00000	atone wo.	575-393-1079		
0003 (10003 (111) 03 01) (100 1000 1111)					
NORM READINGS TAKEN? (Circle One)	YES / NO		> 50 micro roentgens	? (circle one) Y	ES NO
PASS THE PAINT FILTER TEST? (Circle One)	YES	NO			
Feet	TANK BO	DTTOMS			
Gauge		858/	W/BBLS Received	BS&	N (%)
d Gauge			Free Water		
eceived		1	Total Received		
I he chy certify that he above load systerial has bee	en (circle one): CCEONED DEN	ED If depled, why?			
W CHILLOW	1 ,5/12	()/n	/	10/101	
J. Joseph Co					
	Oli Class	100		1 Journal	
-138 White R360 ORIGINAL				1 man for	Version



Permian Basin

MARATHON OIL COMPANY Customer:

Ordered by: ISAAC CASTRO

AFE #:

PO #: Manifest #:

401924

Manif. Date:

Hauler: Driver

Truck # Card #

CRI3930 Customer #:

12/18/2019

Mulholland Energy Services **ALBERTO**

121

Job Ref#

Ticket #: 700-1090231 O6UJ9A000AM5 Bid #: Date:

12/18/2019 Generator: MARATHON OIL COMPANY

Generator #:

Well Ser. #: 44736 MARINER FEE 23 28 19 WA Well Name:

Well #: 010H

Field: Field #:

Units

NON-DRILLING Rig: EDDY (NM) County

Facility: CRI **Product / Service**

Contaminated Soil (RCRA Exempt) 5.00 yards

Cell pН CI Cond. %Solids **TDS** PCI/GM MR/HR H2S % Oil Weight

Quantity

Lab Analysis: 50/51 0.00 0.00 0.00

Jet Wash (Recycled Water) 1.00 hour

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ M	SDS Information	RCRA Hazardous Waste Analysis	Process Knowledge	_	Other (Provide description above)
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Driver/ Agent Signature	R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:	Date:

TANANA C			(PLEASE PR	IINT)		IJAAL CAIT 575-988-056
1	, - , -		GENERA	TOR		924
erator No.	lavathon	-021		Permit/RRC No.	401	324
erators Name				Lease/Well Name & No. N	Minings for 1	32819 WE
dress				County	Eddy	2 2 0 1 1 W.F.
				API No.	30-015 44	136
γ, State, Zip				Rig Name & No		7
one No.				AFE/PO No.		
	EXEMPT E&P W	/aste/Service Identification	on and Amount (place	e volume next to	waste type in barrels or cubic yards)	
il Based Muds il Based Cuttings		NON-INJECTABLE WATER Washout Water (Non-Inje	A RESIDENCE TO A PROPERTY OF	7	(INJECTABLE WATERS Washout Water (Injectable)	
ater Based Muds		Completion Fluid/Flow ba	The second secon	1	Completion Fluid/Flow back (Injectable)	
ater Based Cuttings oduced Formation Sc	olids	Produced Water (Non-Injugathering Line Water/Wa			Produced Water (Injectable) Gathering Line Water/Waste (Injectable)	
nk Bottoms	_	INTERNAL USE ONLY	iste (Noir injectuole)		OTHER EXEMPT WASTES (type and general	The second secon
kP Contaminated Soil as Plant Waste		Truck Washout (exempt v	vaste)			
ASTE GENERATION	N PROCESS:	DRILLING	COMPLETIC	ON [PRODUCTION GA	THERING LINES
		NON-EXEM	IPT E&P Waste/Service I	Identification and An	nount	
	All non-exempt E&P	waste must be analysed and	be below the threshold	ilmits for toxicity (T	CLP), Ignitability, Corrosivity and Reactivity.	
n-Exempt Other				*please select f	from Non-Exempt Waste List on back	
JANTITY		B-BARI	RIAS E	L - LIQUID	Y - YARDS	E - EACH
	opriate classification) Oil field wastes load basis only) MPT: Oil field waste v 261,21-261.24, hazardous is att	generated from oil and gas en which is non-hazardous that don listed hazardous waste as a ached. (Check the appropriat	xploration and production and production and the minidefined by 40 CFR, particle items as provided)	on operations and an imum standards for 261, subpart D, as an	Agency's July 1988 regulatory determination re not mixed with non-exempt waste (R360 waste hazardous by characteristics establishmended, The following documentation dem	Accepts certifications on a p
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RCRA EXEMPT: RCRA NON-EXER RCRA NON-EXER EMERGENCY NON ansporter's me dress one No. ereby certify that the TRU TRU I ansporter's me dress Ansporter's me dress one No. Halfw. dress 6601 H	Depriate classification) Oil field wastes load basis only) MPT: Oil field waste v 261,21-261,24, hazardous is att MSDS Information N-OILFEILD: Emergency non-determination at the control of the cont	generated from oil and gas exhich is non-hazardous that dor listed hazardous waste as ached. (Check the appropriation RCRA Hazardous, non-oilfeild waste at a description of the waste and	xploration and production and production and exceed the minimal defined by 40 CFR, particle items as provided) azardous Waste Analysis that has been ordered must accompany this form that is a specific and the company that is a	on operations and ard ard for 261, subpart D, as ard by the Department D, as are by the D, a	waste hazardous by characteristics establishmended. The following documentation dem Other (Provide Description Below) of Public Safety (the order, documentation SIGNATURE PUBLIC SAFETY OF THE PUBLISH STATES OF THE PU	Accepts certifications on a place of the first state of the waste as non of non-hazardous waste

DENIED

BS&W (%)

1st Gauge

2nd Gauge

certify that the

Received

allove load material has been (circle one):

8\$&W/BBL\$ Received

Free Water

Total Received



Permian Basin

MARATHON OIL COMPANY Customer:

Ordered by:

AFE #: PO #:

Customer #:

Manifest #:

420632

12/20/2019

Manif. Date: Hauler: Driver

TALON/LPE, LTD. **ERNESTO**

Truck # Card # Job Ref#

CRI3930

MCCODL SPEARS

Generator: Generator #:

Well Ser. #:

Ticket #:

Bid #:

Date:

44736 Well Name: MARINER FEE 23 28 19 WA

Well #:

010H

Field: Field #:

NON-DRILLING Rig: EDDY (NM) County

700-1091138

12/20/2019

O6UJ9A000AM5

MARATHON OIL COMPANY

Facility: CRI

Product / Service	ce			- 100 VIV		Qı	uantity	Units				
Contaminated S	Soil (RCR/	A Exempt)					20.00	yards				
	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/G	M	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0							

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

	MSDS Information	RC	'RA Hazardous'	Waste Analysis	Process Knowledge	Other	Provide descri	ntion above
_					_ 1100000 Ithomicabo	0	TIOTIGE GESCIII	puon above

Driver/ Agent Signature	R360 Representative Signature	
	-	
Customer Approval		579人名阿拉兰·安特斯

THIS IS NOT AN INVOICE!

Approved By:	Date:



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Page 84 of 149 574 3700782

Company Man Contact Information
Name HECCO SEERS Phone No.

		GENERATO	R	NO	. 42063	2
Operator No.			Permit/RRC No.	30-	015-94	736 e 23281
Operators Name HAR	ATHON		.ease/Well Name & No.	MAR	NeR F	P 23781
Address			County	L	UHHI	2/1/2
ACTURES.				-	4 //	1012
Ch. CON 70			API No.			
City, State Zip			Rig Name & No.			
Phone No			AFE/PO No			
The state of the s	MPT E&P Waste/Service Identifi		ume next to wa	THE RESERVE OF THE PARTY OF THE	or cubic yards)	
Oil Based Muds Oil Based Cuttings	NON-INJECTABLE W. Washout Water (No			Washout Water (Injection)	table)	
Water Based Muds		ow back (Non-Injectable)		Completion Fluid/Flov		
Water Based Cuttings	Produced Water (No			Produced Water (Injec		
Produced Formation Solids Tank Bottoms	Gathering Line Water INTERNAL USE ONLY	er/Waste (Non-Injectable)		Gathering Line Water, OTHER EXEMPT WAST		aranos cof the usual of
E&P Contaminated Soil	Truck Washout (exe			DINER EXEMPT WAST	CO ITABLE AND SELECTION D	rocess or the waster
Gas Plant Waste						
WASTE GENERATION PROCESS:	DRILLING	COMPLETION		PRODUCTION	GATHE	RING LINES
All non	NON- exempt E&P waste must be analyse	EXEMPT E&P Waste/Service Identi			the aged December	
lan-lixempt Other	exemple exer waste most on analyse	SISTO DESCRIPTION TO SECURE SHOULD HAVE		m Non-Exempt Waste		
7					77	
VIITNAUD	8 -	BARRELS L	- HQUID	20 6	ARDS	E - EACH
EMERGENCY NON-OILFEILD: det	ergency non-hazradous, non-oilfeild ermination and a desciption of the w	opriate items as provided) RA Hazardous Waste Analysis waste that has been ordered by the vaste must accompany this form) TRANSPORT DATE OF TRANSPORT	ne Department of	Other (Provide Descrip	etion Below) et, documentation of n	
none No.			ruck No.	A-	003	
hereby certify that the above named m	aterial(s) was were picked on a he	Generator's site listed above and	delivered without)
12/20/19	(4)		/	-	6	
SOME MENT DATE	DRIVER'S SIGNATURE		duive	0/19	DRIVER'S	SIGNATURE
TRUCK TIME	STAMP	DISPOSAL FAC	ILITY		RECEIVING AL	BEA .
	UT:		N 150 300	Name/N		2/
	511			ivanie/iv	- JUP	()1
te Name/ ermit No Halfway Facility / NM:	1-006	р	hone No.	575-393-1079)	_
1.1	2/180 Mile Marker 66 Carlshad, NM	88220				
500111000311111 030			W.W.C			
NORM READINGS TAKEN				g > 50 micro roentgens	r (circle one) Y	ES NO
PASS THE PAINT FILTER TEST	? (Circle One)) NO				
		TANK BOTTO	MS	P .		
Feet	Inches					
st Gauge			85&	W/BBLS Received	BS&	W (%)
nd Gauge eceived				Free Water Total Received		
CONTRACT			1	rotal Received		
Therrony certify that the above load m	naterial has been friede one)	ACCEPTED DENIED	If denied, why?	1	7	
1	100	(a) who	a demed, why	11		4
(NOC.)	18.20	Con Con	n_	(
MANUTATION (ITEL)	DAIL	in	I.		SHOWATURE	



APPENDIX V

PHOTOGRAPHIC DOCUMENTATION

Marathon Oil-Mariner Fee 23 28 19 WA #001H

PHOTO DOCUMENTATION



Aerial of Site (staining)



Area of B4



Area of B6



Area of B1



Area of B5

Marathon Oil-Mariner Fee 23 28 19 WA #001H PHOTO DOCUMENTATION-Remediation



Excavation North of Tank Area (Pad)



Hydrovac lines-Generator Area

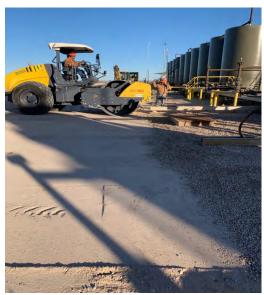


Excavation Area South of Well Heads



Hand Excavation 2nd Spill Area (Generators)

Marathon Oil-Mariner Fee 23 28 19 WA #001H PHOTO DOCUMENTATION COMPLETION



Completion 2nd Spill Area (Pad)



Pad Area Completion North of Tanks



Completion Compressor Fuel Tank Area (Pad)



Completion 2nd Spill Area (Generators)



APPENDIX VI

Laboratory Data



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 25, 2019

Rebecca Pons Talon Artesia 408 West Texas Ave Artesia, NM 88210 TEL: (505) 385-1226

FAX (505) 299-2720

RE: Mariner CTB OrderNo.: 1911A10

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 17 sample(s) on 11/21/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B1 @ 6ft

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 9:00:00 AM

 Lab ID:
 1911A10-001
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed B	Batch
EPA METHOD 300.0: ANIONS					Analyst: C	CJS
Chloride	300	59	mg/Kg	20	11/22/2019 8:09:17 PM 4	48982
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: E	3RM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/22/2019 10:59:25 AM 4	48962
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/22/2019 10:59:25 AM 4	48962
Surr: DNOP	97.2	70-130	%Rec	1	11/22/2019 10:59:25 AM 4	48962
EPA METHOD 8015D: GASOLINE RANGE					Analyst: N	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/22/2019 9:03:52 AM 4	48947
Surr: BFB	105	77.4-118	%Rec	1	11/22/2019 9:03:52 AM 4	48947
EPA METHOD 8021B: VOLATILES					Analyst: N	NSB
Benzene	ND	0.024	mg/Kg	1	11/22/2019 9:03:52 AM 4	48947
Toluene	ND	0.048	mg/Kg	1	11/22/2019 9:03:52 AM 4	18947
Ethylbenzene	ND	0.048	mg/Kg	1	11/22/2019 9:03:52 AM 4	18947
Xylenes, Total	ND	0.096	mg/Kg	1	11/22/2019 9:03:52 AM 4	18947
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	11/22/2019 9:03:52 AM 4	48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

rting Limit Page 1 of 22

Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Mariner CTB

Lab ID: 1911A10-002

Client Sample ID: B2 @ 3ft

Collection Date: 11/18/2019 9:30:00 AM

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: CJS
Chloride	280	60	mg/Kg	20	11/22/2019 8:46:31 F	PM 48982

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 22

Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B2 @ 2ft

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 9:30:00 AM

 Lab ID:
 1911A10-003
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	550	60	mg/Kg	20	11/22/2019 8:58:55 PM 48982
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	11/22/2019 11:17:32 AM 48962
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/22/2019 11:17:32 AM 48962
Surr: DNOP	88.6	70-130	%Rec	1	11/22/2019 11:17:32 AM 48962
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/22/2019 11:24:44 AM 48947
Surr: BFB	111	77.4-118	%Rec	1	11/22/2019 11:24:44 AM 48947
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/22/2019 11:24:44 AM 48947
Toluene	ND	0.047	mg/Kg	1	11/22/2019 11:24:44 AM 48947
Ethylbenzene	ND	0.047	mg/Kg	1	11/22/2019 11:24:44 AM 48947
Xylenes, Total	ND	0.095	mg/Kg	1	11/22/2019 11:24:44 AM 48947
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	11/22/2019 11:24:44 AM 48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 22

Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B4 @ Surface

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 2:30:00 PM

 Lab ID:
 1911A10-004
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	1200	60	mg/Kg	20	11/22/2019 9:11:20 PM 48982
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/22/2019 11:26:35 AM 48962
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/22/2019 11:26:35 AM 48962
Surr: DNOP	95.2	70-130	%Rec	1	11/22/2019 11:26:35 AM 48962
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/22/2019 12:35:24 PM 48947
Surr: BFB	100	77.4-118	%Rec	1	11/22/2019 12:35:24 PM 48947
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	11/22/2019 12:35:24 PM 48947
Toluene	ND	0.046	mg/Kg	1	11/22/2019 12:35:24 PM 48947
Ethylbenzene	ND	0.046	mg/Kg	1	11/22/2019 12:35:24 PM 48947
Xylenes, Total	ND	0.093	mg/Kg	1	11/22/2019 12:35:24 PM 48947
Surr: 4-Bromofluorobenzene	95.4	80-120	%Rec	1	11/22/2019 12:35:24 PM 48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 22

Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B5 @ Surface-1'

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 3:20:00 PM

 Lab ID:
 1911A10-005
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	1200	60	mg/Kg	20	11/22/2019 9:23:45 PM 48982
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	33	10	mg/Kg	1	11/22/2019 11:35:36 AM 48962
Motor Oil Range Organics (MRO)	65	50	mg/Kg	1	11/22/2019 11:35:36 AM 48962
Surr: DNOP	91.6	70-130	%Rec	1	11/22/2019 11:35:36 AM 48962
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/22/2019 12:58:44 PM 48947
Surr: BFB	103	77.4-118	%Rec	1	11/22/2019 12:58:44 PM 48947
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	11/22/2019 12:58:44 PM 48947
Toluene	ND	0.050	mg/Kg	1	11/22/2019 12:58:44 PM 48947
Ethylbenzene	ND	0.050	mg/Kg	1	11/22/2019 12:58:44 PM 48947
Xylenes, Total	ND	0.10	mg/Kg	1	11/22/2019 12:58:44 PM 48947
Surr: 4-Bromofluorobenzene	97.8	80-120	%Rec	1	11/22/2019 12:58:44 PM 48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 22

Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B5 @ 4ft

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 3:20:00 PM

 Lab ID:
 1911A10-006
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 590
 60
 mg/Kg
 20
 11/22/2019 9:36:10 PM
 48982

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

pring Limit Page 6 of 22

Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B6 @ Surface 2-1'

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 4:00:00 PM

 Lab ID:
 1911A10-007
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	880	60	mg/Kg	20	11/22/2019 9:48:34 PM 48982
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/22/2019 11:44:40 AM 48962
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/22/2019 11:44:40 AM 48962
Surr: DNOP	93.0	70-130	%Rec	1	11/22/2019 11:44:40 AM 48962
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/22/2019 1:22:18 PM 48947
Surr: BFB	106	77.4-118	%Rec	1	11/22/2019 1:22:18 PM 48947
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	11/22/2019 1:22:18 PM 48947
Toluene	ND	0.050	mg/Kg	1	11/22/2019 1:22:18 PM 48947
Ethylbenzene	ND	0.050	mg/Kg	1	11/22/2019 1:22:18 PM 48947
Xylenes, Total	ND	0.10	mg/Kg	1	11/22/2019 1:22:18 PM 48947
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	11/22/2019 1:22:18 PM 48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B6 @ 3ft

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 4:00:00 PM

 Lab ID:
 1911A10-008
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 640
 60
 mg/Kg
 20
 11/22/2019 10:00:58 PM 48982

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 22

Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B7 @ Surface -1'

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 2:10:00 PM

 Lab ID:
 1911A10-009
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	1800	60	mg/Kg	20	11/22/2019 10:13:24 PM 48982
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/22/2019 11:53:46 AM 48962
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/22/2019 11:53:46 AM 48962
Surr: DNOP	91.6	70-130	%Rec	1	11/22/2019 11:53:46 AM 48962
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/22/2019 1:45:49 PM 48947
Surr: BFB	106	77.4-118	%Rec	1	11/22/2019 1:45:49 PM 48947
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	11/22/2019 1:45:49 PM 48947
Toluene	ND	0.047	mg/Kg	1	11/22/2019 1:45:49 PM 48947
Ethylbenzene	ND	0.047	mg/Kg	1	11/22/2019 1:45:49 PM 48947
Xylenes, Total	ND	0.094	mg/Kg	1	11/22/2019 1:45:49 PM 48947
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	11/22/2019 1:45:49 PM 48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B8 @ Surface -1'

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 2:15:00 PM

 Lab ID:
 1911A10-010
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	160	59	mg/Kg	20	11/22/2019 10:25:48 PM 48982
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	11/22/2019 12:03:02 PM 48962
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/22/2019 12:03:02 PM 48962
Surr: DNOP	104	70-130	%Rec	1	11/22/2019 12:03:02 PM 48962
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/22/2019 2:09:10 PM 48947
Surr: BFB	107	77.4-118	%Rec	1	11/22/2019 2:09:10 PM 48947
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/22/2019 2:09:10 PM 48947
Toluene	ND	0.048	mg/Kg	1	11/22/2019 2:09:10 PM 48947
Ethylbenzene	ND	0.048	mg/Kg	1	11/22/2019 2:09:10 PM 48947
Xylenes, Total	ND	0.097	mg/Kg	1	11/22/2019 2:09:10 PM 48947
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	11/22/2019 2:09:10 PM 48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B9 @ Surface -1'

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 3:35:00 PM

 Lab ID:
 1911A10-011
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	2300	60	mg/Kg	20	11/22/2019 10:38:13 PM 48982
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: BRM
Diesel Range Organics (DRO)	81	9.2	mg/Kg	1	11/22/2019 12:12:17 PM 48962
Motor Oil Range Organics (MRO)	70	46	mg/Kg	1	11/22/2019 12:12:17 PM 48962
Surr: DNOP	87.5	70-130	%Rec	1	11/22/2019 12:12:17 PM 48962
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/22/2019 2:32:29 PM 48947
Surr: BFB	105	77.4-118	%Rec	1	11/22/2019 2:32:29 PM 48947
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	11/22/2019 2:32:29 PM 48947
Toluene	ND	0.046	mg/Kg	1	11/22/2019 2:32:29 PM 48947
Ethylbenzene	ND	0.046	mg/Kg	1	11/22/2019 2:32:29 PM 48947
Xylenes, Total	ND	0.093	mg/Kg	1	11/22/2019 2:32:29 PM 48947
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	11/22/2019 2:32:29 PM 48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B10 @ Surface -1'

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 4:15:00 PM

 Lab ID:
 1911A10-012
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	420	61	mg/Kg	20	11/22/2019 11:15:28 PM 48982
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: BRM
Diesel Range Organics (DRO)	59	9.6	mg/Kg	1	11/22/2019 12:21:28 PM 48962
Motor Oil Range Organics (MRO)	91	48	mg/Kg	1	11/22/2019 12:21:28 PM 48962
Surr: DNOP	88.1	70-130	%Rec	1	11/22/2019 12:21:28 PM 48962
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/22/2019 2:55:48 PM 48947
Surr: BFB	99.6	77.4-118	%Rec	1	11/22/2019 2:55:48 PM 48947
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	11/22/2019 2:55:48 PM 48947
Toluene	ND	0.049	mg/Kg	1	11/22/2019 2:55:48 PM 48947
Ethylbenzene	ND	0.049	mg/Kg	1	11/22/2019 2:55:48 PM 48947
Xylenes, Total	ND	0.099	mg/Kg	1	11/22/2019 2:55:48 PM 48947
Surr: 4-Bromofluorobenzene	94.9	80-120	%Rec	1	11/22/2019 2:55:48 PM 48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B4 @ 6ft

Project: Mariner CTB **Collection Date:** 11/18/2019 2:35:00 PM

Lab ID: 1911A10-013 **Matrix:** SOIL **Received Date:** 11/21/2019 9:10:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: CJS
Chloride	190	60	mg/Kg	20	11/22/2019 11:27:52	2 PM 48982

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B11 @ Surface -1'

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 4:20:00 PM

 Lab ID:
 1911A10-014
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	360	61	mg/Kg	20	11/23/2019 12:05:05 AM 48987
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	11	9.4	mg/Kg	1	11/22/2019 12:30:39 PM 48962
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/22/2019 12:30:39 PM 48962
Surr: DNOP	95.5	70-130	%Rec	1	11/22/2019 12:30:39 PM 48962
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/22/2019 4:30:08 PM 48947
Surr: BFB	100	77.4-118	%Rec	1	11/22/2019 4:30:08 PM 48947
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	11/22/2019 4:30:08 PM 48947
Toluene	ND	0.046	mg/Kg	1	11/22/2019 4:30:08 PM 48947
Ethylbenzene	ND	0.046	mg/Kg	1	11/22/2019 4:30:08 PM 48947
Xylenes, Total	ND	0.092	mg/Kg	1	11/22/2019 4:30:08 PM 48947
Surr: 4-Bromofluorobenzene	95.6	80-120	%Rec	1	11/22/2019 4:30:08 PM 48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B12 @ Surface-1'

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 4:25:00 PM

 Lab ID:
 1911A10-015
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	1400	60	mg/Kg	20	11/23/2019 12:42:18 AM 48987
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	8.3	mg/Kg	1	11/22/2019 1:16:18 PM 48963
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	11/22/2019 1:16:18 PM 48963
Surr: DNOP	105	70-130	%Rec	1	11/22/2019 1:16:18 PM 48963
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/22/2019 4:53:38 PM 48947
Surr: BFB	103	77.4-118	%Rec	1	11/22/2019 4:53:38 PM 48947
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/22/2019 4:53:38 PM 48947
Toluene	ND	0.048	mg/Kg	1	11/22/2019 4:53:38 PM 48947
Ethylbenzene	ND	0.048	mg/Kg	1	11/22/2019 4:53:38 PM 48947
Xylenes, Total	ND	0.095	mg/Kg	1	11/22/2019 4:53:38 PM 48947
Surr: 4-Bromofluorobenzene	98.0	80-120	%Rec	1	11/22/2019 4:53:38 PM 48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B13 @ 3ft

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 4:30:00 PM

 Lab ID:
 1911A10-016
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	340	60	mg/Kg	20	11/23/2019 1:44:20 AM	48987
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	11/22/2019 1:43:41 PM	48963
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	11/22/2019 1:43:41 PM	48963
Surr: DNOP	92.6	70-130	%Rec	1	11/22/2019 1:43:41 PM	48963
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/22/2019 5:17:07 PM	48947
Surr: BFB	105	77.4-118	%Rec	1	11/22/2019 5:17:07 PM	48947
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	11/22/2019 5:17:07 PM	48947
Toluene	ND	0.047	mg/Kg	1	11/22/2019 5:17:07 PM	48947
Ethylbenzene	ND	0.047	mg/Kg	1	11/22/2019 5:17:07 PM	48947
Xylenes, Total	ND	0.094	mg/Kg	1	11/22/2019 5:17:07 PM	48947
Surr: 4-Bromofluorobenzene	99.7	80-120	%Rec	1	11/22/2019 5:17:07 PM	48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B14 @ 4ft

 Project:
 Mariner CTB
 Collection Date: 11/18/2019 4:35:00 PM

 Lab ID:
 1911A10-017
 Matrix: SOIL
 Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	320	60	mg/Kg	20	11/23/2019 1:56:45 AM	48987
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	11/22/2019 1:52:48 PM	48963
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/22/2019 1:52:48 PM	48963
Surr: DNOP	91.2	70-130	%Rec	1	11/22/2019 1:52:48 PM	48963
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/22/2019 5:40:25 PM	48947
Surr: BFB	101	77.4-118	%Rec	1	11/22/2019 5:40:25 PM	48947
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/22/2019 5:40:25 PM	48947
Toluene	ND	0.048	mg/Kg	1	11/22/2019 5:40:25 PM	48947
Ethylbenzene	ND	0.048	mg/Kg	1	11/22/2019 5:40:25 PM	48947
Xylenes, Total	ND	0.096	mg/Kg	1	11/22/2019 5:40:25 PM	48947
Surr: 4-Bromofluorobenzene	96.0	80-120	%Rec	1	11/22/2019 5:40:25 PM	48947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911A10**

25-Nov-19

Client: Talon Artesia
Project: Mariner CTB

Sample ID: MB-48982 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 48982 RunNo: 64737

Prep Date: 11/22/2019 Analysis Date: 11/22/2019 SeqNo: 2218326 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-48982 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 48982 RunNo: 64737

Prep Date: 11/22/2019 Analysis Date: 11/22/2019 SeqNo: 2218327 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.9 90 110

Sample ID: MB-48987 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 48987 RunNo: 64737

Prep Date: 11/22/2019 Analysis Date: 11/22/2019 SeqNo: 2218358 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-48987 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 48987 RunNo: 64737

Prep Date: 11/22/2019 Analysis Date: 11/22/2019 SeqNo: 2218359 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.5 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1911A10 25-Nov-19**

Client: Talon Artesia
Project: Mariner CTB

Sample ID: 1911A10-015AMS	SampT	ype: MS	3	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: B12 @ Surface-1'	Batch	ID: 48	963	F	RunNo: 64	4714					
Prep Date: 11/21/2019	Analysis D	ate: 11	/22/2019	S	SeqNo: 22	217486	Units: mg/K	ίg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	47	9.5	47.39	2.763	93.6	57	142				
Surr: DNOP	4.2		4.739		89.3	70	130				
Sample ID: LCS-48962	SampT	vpe: LC	s	Tes	Code: FI	PA Method	8015M/D: Die	esel Range	Organics		

Sample ID: LCS-48962	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 48	962	F	RunNo: 6	4714				
Prep Date: 11/21/2019	Analysis D	ate: 1 1	/22/2019	S	SeqNo: 2	217487	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.5	63.9	124			
Surr: DNOP	4.4		5.000		88.1	70	130			

Sample ID: LCS-48963	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	n ID: 48	963	F	RunNo: 6	4714				
Prep Date: 11/21/2019	Analysis D	ate: 1 1	1/22/2019	8	SeqNo: 2	217489	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	111	63.9	124			
Surr: DNOP	5.3		5.000		105	70	130			

Sample ID: MB-48962	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 48	962	F	RunNo: 6	4714				
Prep Date: 11/21/2019	Analysis D	ate: 1 1	1/22/2019	5	SeqNo: 2	217490	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.1	70	130			

Sample ID: MB-48963	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	n ID: 48	963	F	RunNo: 6	4714				
Prep Date: 11/21/2019	Analysis D	ate: 1 1	1/22/2019	8	SeqNo: 2	217491	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		105	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1911A10 25-Nov-19**

Client: Talon Artesia
Project: Mariner CTB

Sample ID: 1911A10-015AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **B12** @ **Surface-1'** Batch ID: **48963** RunNo: **64714**

Prep Date: 11/21/2019 Analysis Date: 11/22/2019 SeqNo: 2218273 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 2.763 53 9.3 46.47 108 57 142 11.6 20 Surr: DNOP 4.9 4.647 106 70 130 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 20 of 22

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911A10 25-Nov-19

Client: Project:

Analyte

Talon Artesia Mariner CTB

Sample ID: MB-48947

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 48947

RunNo: 64724

%REC

HighLimit

Prep Date: 11/21/2019

Analysis Date: 11/22/2019 **PQL**

5.0

SeqNo: 2217798

Units: mg/Kg

118

%RPD

RPDLimit Qual

S

S

Qual

R

Gasoline Range Organics (GRO) Surr: BFB

ND 1000

Result

1000

SPK value SPK Ref Val

103 77.4

LowLimit

Sample ID: LCS-48947

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 48947

1200

1200

Result

27

1100

RunNo: 64724

Prep Date: 11/21/2019

Analysis Date: 11/22/2019

SeqNo: 2217799

Units: mg/Kg

HighLimit

118

Qual

Surr: BFB

Gasoline Range Organics (GRO)

Result **PQL** 5.0

SPK value SPK Ref Val %REC LowLimit

80 120

77.4

%RPD **RPDLimit**

Analyte

Sample ID: 1911A10-001AMS

SampType: MS

Batch ID: 48947

25.00

1000

977.5

954.2

RunNo: 64724

121

TestCode: EPA Method 8015D: Gasoline Range

Client ID: B1 @ 6ft

Client ID: B1 @ 6ft

Prep Date: 11/21/2019

Gasoline Range Organics (GRO)

Analysis Date: 11/22/2019 Prep Date: 11/21/2019

SeqNo: 2217801

119

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result **PQL** 33 4.9 24.44

SPK value SPK Ref Val 0

%REC 135 69.1 77.4

LowLimit

%RPD HighLimit 142

118

RPDLimit

Qual

Sample ID: 1911A10-001AMSD

Surr: BFB

SampType: MSD Batch ID: 48947

Analysis Date: 11/22/2019

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 64724 SeqNo: 2217802

112

112

Units: mg/Kg

RPDLimit

PQL SPK value SPK Ref Val 4.8 23.85

%REC

0

LowLimit

69.1

77.4

HighLimit 142

118

%RPD

21.6 0

20

0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 21 of 22

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911A10

25-Nov-19

Client: Talon Artesia **Project:** Mariner CTB

Sample ID: MB-48947 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 48947 RunNo: 64724

Prep Date: 11/21/2019 Analysis Date: 11/22/2019 SeqNo: 2217827 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.98 1.000 98.0 80 120

Sample ID: LCS-48947 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 48947 RunNo: 64724 Prep Date: 11/21/2019 Analysis Date: 11/22/2019 SeqNo: 2217828 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit 1.0 1.000 0 100 80 120 Benzene 0.025 Toluene 1.0 0.050 1.000 0 102 80 120 Ethylbenzene 0.050 1.000 0 102 80 120 1.0 Xylenes, Total 3.1 0.10 3.000 0 103 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120

Sample ID: 1911A10-002AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Batch ID: 48947 Client ID: B2 @ 3ft RunNo: 64724

Pren Date: 11/21/2010 Analysis Date: 11/22/2010 SeaNo: 2217820 Unite: malka

Prep Date: 11/21/2019	Analysis L	pate: 11	1/22/2019	3	seqivo: 22	21/829	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.3	0.097	0.9737	0	130	61.1	124	-	_	S
Benzene	1.1	0.024	0.9737	0	114	76	123			
Toluene	1.1	0.049	0.9737	0.01000	115	80.3	127			
Ethylbenzene	1.1	0.049	0.9737	0	117	80.2	131			
Xylenes, Total	3.4	0.097	2.921	0.01545	117	78	133			
Surr: 4-Bromofluorobenzene	0.99		0.9737		101	80	120			

Sample ID: 1911A10-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: B2 @ 3ft Batch ID: 48947 RunNo: 64724 Prep Date: 11/21/2019 Analysis Date: 11/22/2019 SeqNo: 2217830 Units: mg/Kg

	,a., o.o -		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•			oo. Iligiri	٠9		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9843	0	110	76	123	2.07	20	
Toluene	1.1	0.049	0.9843	0.01000	111	80.3	127	2.36	20	
Ethylbenzene	1.1	0.049	0.9843	0	113	80.2	131	2.39	20	
Xylenes, Total	3.4	0.098	2.953	0.01545	114	78	133	1.70	20	
Surr: 4-Bromofluorobenzene	0.98		0.9843		100	80	120	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 22 of 22



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque NM 87109
TEL: 505-345-5975 FAX: 505-345-4107
Website: www.hallenvironmenial.com

Sample Log-In Check List

Come	ent Name	TALON AF	RTESIA	Work	Order Num	ben 1911A	IQ.		Roph	No 1
Rec	eived By:	Yazmine	Garduno	11/21/20	19 9:10:00	MAC		sprywa lebrase		
Con	pleted By:	Yazmine	Garduno	11/21/20	19 9:56:26	MAR		ibyus lebeut		
	iewed By:	LB	our during	11/21/1	As a facilities of	2.111		01		
Cha	in of Cus	stody								
		ustody comp	lete?			Yes V		No 🗆	Not Present _	
		sample deliv				Courier				
Los	g In									
3. V	Vas an atten	npt made to	cool the samp	iles?		Yes W	1	No 🗆	NA.	
4. W	iere all sam	ples received	l al a tempera	iture of >0° C t	06.0°C	Yes M	9	No 🗆	NA _	
5. s	ample(s) in	proper conta	iner(s)?			Yes V]	No 🗌		
6. S	ufficient san	nple volume t	for indicated t	est(s)?		Yes 🗸		No 🗌		
7. A	re samples i	(except VOA	and ONG) pr	operly preserve	d?	Yes W	i.	No 🗌		
8. W	las preserva	ative added to	bottles?			Yes 🗀		No 🗸	NA 🗆	
9, v	OA vials hav	ve zero head	врасе?			Yes [(No 🗌	No VOA Vials	1
10. W	Vere any sai	mple contain	ers received b	proken?		Yes) [Na 🗸	# of preserved	
		ork match bo ancies on ch	ittle labels? ain of custody)		Yes 🗸	P	No 🗀	for pH (<2	or>12 unless noted)
12. A	re matrices	correctly iden	tified on Cha	in of Custody?		Yes V		No 🔲	Adjusted7	
13. Is	it dear wha	it analyses w	ere requested	13.		Yes V		No 🗔	1	VAndrelia
		ing times able sustomer for a	e to be met? authorization.)			Yes 🗹	F	No. 🗆	Chacked by:	4611/21/19
Spec	lai Handi	ling (if ap)	plicable)							
15. V	Vas client no	otified of all d	liscrepancies	with this order?		Yes	1	No 🗆	NA M	1
	Person	Notified:			Date			-		
	By Who	om	[Via:	[] eMail	Ph	one 🗌 Fax	_ in Person	
	Regard	ling								
	Client I	nstructions								
16.	Additional re	emarks								
17. 9	Cooler Info	rmation								
	Cooler No	The second second second	THE PROPERTY AND ADDRESS OF THE PARTY AND ADDR	Seal Intact	Seal No	Seal Date	5	Signed By		
	1	5.0	Good							
	3	3.0	Good Good		-		-			

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Slient	Pelan	Client Age 1847 A 96	6.	□ Standard	□ Rush		¥	VALYSIS	ANALYSIS LABORATORY
lailing	46 7 Mailing Address:	10.5	tas , Autosa	Project Name.	OF CIN		w 4901 Hawkins	www.nallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109	ntal.com ue, NM 87109
				Project #.			Tel. 505-345-3975	3975 Fax 506	505-345-4107
Phone #:		74-	574-441-09 80	7023	70224 4. 044.01	10.		Analysis Request	dnest
email pr Fax OA/OC Packs	Package dard	2000	4. Loral Herical	Project Manager.	ger.	Ķ		POt SO	(JuəsdA\ir
Accreditati	Accreditation:	□ Az Co	mpliance	Sampler:	-	3	70 \ D808\ (1.140	чол	
EDD	EDD (Type)	D OIL		# of Coolers.	8 6	ON T	GEO Sepi	tals	T)
				Cooler Temp(industry 2F)		Pennakla	l SD(8 Me 8ر, 1⁄8 AOv)	1000
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	1917ANS	08:H9T 9 1:808 W) 803	PAHs b RCRA 8 8260 (V 8260 (V	
817	11/18 9:00		A1 10 617	4a.	200	-001	7	7	
11/18	01.30		-	OTHE.	tes	7005	X	7	
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81/11	2,30		@ Subase	TER	Ì	hOQ-	7	1	
	3.70		0	7788	7	-005	7	7	
	3:20		165 @ 4/4 B	JURR	,	400-	1	7	
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1	,		A100 214	200	1	400-		7	
1	270			JAR	7	-00%	7	7	
1	2:15		880 Suman-1'	The	7	910	3	7	
1	3:55		29 @ Sugare-1"	STUR	7	110-	7	7	
7	4:13	A	10 Sugar	STAR	1	000	7	7	
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Cater	Time	Relinquished by		Received by:	C Viet	Date Time	PHY.	15aae	03070

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Client	Calons	2 1.08	- Standard	1 U Rush			AN	I VS	1	ANALYSTS LABORATORY	AP C
NO8 100	W. FERMS	45 ARYES : A	Project Name:				WWW	www.hallenvironmental.com	onmenta	I.com	
Malling Address:	io.		magnet	- 1	20	4901	Hawkins N	E - Albu	querque,	4901 Hawkins NE - Albuquerque, NM 87109	
- 11			Topic H.			Tel. 5	505-345-3975		Fax 505-3	505-345-4107	
Phone # 3	12-4:	575-441-09 TO	702248	1	944. OI			Analysis	is Request	est	
email or Fax#;			Project Manager,	:Jager:		(0)		°O9		(jui	
QA/QC Package		☐ Level 4 (Full Validation)	Rubine	3	Soos	∃M\O		PO, 9		esdA\t	
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			Ccoler Tempinologies	100	Lehnarh)aaro	Methc by 83		(AOV)	Solitor	
Date Time	Matrix	Sample Name	Container Type and #	Preservative Type	I OFFICE OF THE STATE OF THE ST	8:H9T	EDB ('H'10	0728) leto l	
11/19 2:35		546 bit	Mar	toe.	-013			1	3		
11/13 4:20		1-3	OF WR.	216	100	7		3			
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Certificate of Analysis Summary 646937

Talon LPE-Artesia, Artesia, NM

Project Name: Mariner Fee 23 28 19 WA #1H

Project Id: Contact:

Project Location:

David Adkins

Carlsbad, NM

Date Received in Lab: Wed 12.18.2019 16:52

Report Date: 12.19.2019 11:07

Project Manager: Jessica Kramer

	Lab Id:	646937-001		646937-0	02		
Analusia Daguastad	Field Id:	B- 3A 1'		B- 3A 2	.'		
Analysis Requested	Depth:	1- ft		2- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	12.18.2019 16	:00	12.18.2019	16:05		
BTEX by EPA 8021B	Extracted:	12.18.2019 18	:00	12.18.2019	18:00		
	Analyzed:	12.19.2019 01	:19	12.19.2019	01:38		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		<0.00202 0.	.00202	< 0.00199	0.00199		
Toluene		<0.00202 0.	.00202	< 0.00199	0.00199		
Ethylbenzene			.00202		0.00199		
m,p-Xylenes		<0.00403 0.	.00403	< 0.00398	0.00398		
o-Xylene		<0.00202 0.	.00202		0.00199		
Total Xylenes		<0.00202 0.	.00202	< 0.00199	0.00199		
Total BTEX		<0.00202 0.	.00202	< 0.00199	0.00199		
Chloride by EPA 300	Extracted:	12.18.2019 18	:35	12.18.2019	18:35		
	Analyzed:	12.19.2019 01	:21	12.19.2019	01:27		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		5030	49.9	4040	49.6		
TPH By SW8015 Mod	Extracted:	12.18.2019 17	:00	12.18.2019	17:00		
	Analyzed:	12.18.2019 22	:17	12.18.2019	22:37		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.9	49.9		
Diesel Range Organics (DRO)		<49.8	49.8	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.9	49.9		
Total TPH		<49.8	49.8	<49.9	49.9		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer

Jessica Kramer Project Assistant

for

Talon LPE-Artesia

Project Manager: David Adkins

Mariner Fee 23 28 19 WA #1H

12.19.2019

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



12.19.2019

Project Manager: David Adkins

Talon LPE-Artesia 408 West Texas St. Artesia, NM 88210

Reference: XENCO Report No(s): 646937

Mariner Fee 23 28 19 WA #1H Project Address: Carlsbad, NM

David Adkins:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 646937. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 646937 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Assistant

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 646937

Talon LPE-Artesia, Artesia, NM

Mariner Fee 23 28 19 WA #1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
B- 3A 1'	S	12.18.2019 16:00	1 ft	646937-001
B- 3A 2'	S	12.18.2019 16:05	2 ft	646937-002
B- 3A 3'	S	12.18.2019 16:10	3 ft	Not Analyzed
B- 3A 4'	S	12.18.2019 16:15	4 ft	Not Analyzed

Page 120 of 149

CASE NARRATIVE

Client Name: Talon LPE-Artesia

Project Name: Mariner Fee 23 28 19 WA #1H

Project ID: Report Date: 12.19.2019 Work Order Number(s): 646937 Date Received: 12.18.2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3111013 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Talon LPE-Artesia, Artesia, NM

Mariner Fee 23 28 19 WA #1H

Sample Id: B- 3A 1' Matrix: Soil Date Received:12.18.2019 16:52

Lab Sample Id: 646937-001

Date Collected: 12.18.2019 16:00

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

MAB

MAB Analyst:

Date Prep: 12.18.2019 18:35 Basis: Wet Weight

Seq Number: 3111017

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5030	49.9	mg/kg	12.19.2019 01:21		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

DTH

% Moisture:

DTH Analyst:

Tech:

Date Prep: 12.18.2019 17:00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	12.18.2019 22:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	12.18.2019 22:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	12.18.2019 22:17	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	12.18.2019 22:17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	100	%	70-135	12.18.2019 22:17		
o-Terphenyl		84-15-1	107	%	70-135	12.18.2019 22:17		



Talon LPE-Artesia, Artesia, NM

Mariner Fee 23 28 19 WA #1H

Sample Id: B- 3A 1'

Matrix: Soil

Date Received: 12.18.2019 16:52

Lab Sample Id: 646937-001

Date Collected: 12.18.2019 16:00

12.18.2019 18:00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.19.2019 01:19	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.19.2019 01:19	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.19.2019 01:19	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	12.19.2019 01:19	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.19.2019 01:19	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.19.2019 01:19	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.19.2019 01:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	119	%	70-130	12.19.2019 01:19		
1,4-Difluorobenzene		540-36-3	102	%	70-130	12.19.2019 01:19		



Talon LPE-Artesia, Artesia, NM

Mariner Fee 23 28 19 WA #1H

Sample Id: B- 3A 2'

Matrix: Soil

Date Received:12.18.2019 16:52

Lab Sample Id: 646937-002

Date Collected: 12.18.2019 16:05

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB

MAB

12.18.2019 18:35

Basis:

Wet Weight

Seq Number: 3111017

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4040	49.6	mg/kg	12.19.2019 01:27		5

Date Prep:

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: D

DTH

% Moisture:

Analyst: DTH

Date Prep: 12.18.2019 17:00

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	12.18.2019 22:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	12.18.2019 22:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	12.18.2019 22:37	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	12.18.2019 22:37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	12.18.2019 22:37		
o-Terphenyl		84-15-1	101	%	70-135	12.18.2019 22:37		



Talon LPE-Artesia, Artesia, NM

Mariner Fee 23 28 19 WA #1H

Sample Id: B- 3A 2'

Matrix: Soil

Date Received:12.18.2019 16:52

Lab Sample Id: 646937-002

Date Collected: 12.18.2019 16:05

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B % Moisture:

Tech:

MAB

Date Prep: 12.18.2019 18:00

Basis:

Wet Weight

Analyst: MAB

Parameter	Cas Number	Result	RL	U	nits	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199	m	g/kg	12.19.2019 01:38	U	1
Toluene	108-88-3	< 0.00199	0.00199	m	g/kg	12.19.2019 01:38	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	m	g/kg	12.19.2019 01:38	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	m	g/kg	12.19.2019 01:38	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	m	g/kg	12.19.2019 01:38	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199	m	g/kg	12.19.2019 01:38	U	1
Total BTEX		< 0.00199	0.00199	m	g/kg	12.19.2019 01:38	U	1
C	C-	N b	0/ D	TI:4	r ::4	A	T21	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	12.19.2019 01:38	
4-Bromofluorobenzene	460-00-4	125	%	70-130	12.19.2019 01:38	



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Flag

Flag

Flag

Flag

Flag



QC Summary 646937

Talon LPE-Artesia

Mariner Fee 23 28 19 WA #1H

Analytical Method: Chloride by EPA 300

Seq Number: 3111017

Matrix: Solid

E300P Prep Method:

Date Prep: 12.18.2019

7692789-1-BLK LCS Sample Id: 7692789-1-BKS LCSD Sample Id: 7692789-1-BSD MB Sample Id:

LCS MB Spike LCS Limits %RPD Units Analysis LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride 12.18.2019 23:02

<10.0 250 256 102 256 102 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3111017

Matrix: Soil

Prep Method: Date Prep:

RPD

E300P 12.18.2019

Parent Sample Id:

646903-001

646903-001 S MS Sample Id:

MSD Sample Id: 646903-001 SD

Parameter

Parent Spike Result Amount

MS MS Result %Rec

MSD Result

MSD Limits %Rec

%RPD RPD Units Limit

Analysis Date

20 12.18.2019 23:20 Chloride 290 200 516 113 530 119 90-110 3 mg/kg X

Analytical Method: Chloride by EPA 300

Seq Number:

3111017

Matrix: Soil

Prep Method:

E300P

Units

mg/kg

MS Sample Id: 646903-011 S Parent Sample Id: 646903-011

Date Prep:

12.18.2019 MSD Sample Id: 646903-011 SD

Analysis

Date

12.19.2019 00:40

Spike **RPD Parent** MS MS %RPD MSD **MSD** Limite **Parameter** Result Result Limit Amount %Rec Result %Rec 199 109 20 < 9.96 216 207 104 90-110 4

Chloride

Analytical Method: TPH By SW8015 Mod Seq Number:

3111026

Matrix: Solid

Prep Method:

SW8015P 12.18.2019

Date Prep: MB Sample Id: 7692787-1-BLK LCS Sample Id: 7692787-1-BKS LCSD Sample Id: 7692787-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter** Result Limit Result Amount %Rec Result %Rec Date Gasoline Range Hydrocarbons (GRO) 12.18.2019 21:38 909 91 35 <139 1000 868 87 70-135 5 mg/kg 12.18.2019 21:38 Diesel Range Organics (DRO) 782 78 755 76 70-135 4 35 <11.5 1000 mg/kg

LCS MB LCS MB LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Flag Date %Rec 12.18.2019 21:38 1-Chlorooctane 94 122 117 70-135 % 12.18.2019 21:38 o-Terphenyl 96 114 106 70-135 %

Analytical Method: TPH By SW8015 Mod

Seq Number:

3111026

Matrix: Solid

Prep Method: Date Prep: SW8015P 12.18.2019

MB Sample Id: 7692787-1-BLK

Parameter

MBResult

Units

Analysis Date

12.18.2019 21:18 mg/kg

Motor Oil Range Hydrocarbons (MRO)

< 50.0

= MSD/LCSD Result

Flag

Flag

QC Summary 646937

Talon LPE-Artesia

Mariner Fee 23 28 19 WA #1H

Analytical Method: TPH By SW8015 Mod

Seq Number: 3111026

Parent Sample Id: 646903-006

SW8015P Prep Method: Matrix: Soil Date Prep: 12.18.2019

MS Sample Id: 646903-006 S MSD Sample Id: 646903-006 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) 1000 83 35 12.19.2019 08:20 <13.9 827 1170 70-135 34 117 mg/kg 825 70-135 29 12.19.2019 08:20 Diesel Range Organics (DRO) <11.5 1000 83 1100 35 mg/kg 110

MS MS MSD MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 12.19.2019 08:20 1-Chlorooctane 106 132 70-135 % 12.19.2019 08:20 o-Terphenyl 107 130 70-135 %

Analytical Method: BTEX by EPA 8021B

3111013 Seq Number:

MB Sample Id:

Matrix: Solid

SW5030B Prep Method:

Date Prep: 12.18.2019 7692788-1-BSD

LCS Sample Id: 7692788-1-BKS LCSD Sample Id: 7692788-1-BLK

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis **Parameter** Result Amount Result %Rec Result %Rec Limit Date 12.18.2019 23:18 < 0.00200 0.100 0.0855 86 0.0762 76 70-130 12 35 Benzene mg/kg 12.18.2019 23:18 Toluene < 0.00200 0.100 0.0879 88 0.0782 78 70-130 12 35 mg/kg 12.18.2019 23:18 Ethylbenzene 0.100 0.0869 87 0.0773 77 71-129 12 35 < 0.00200 mg/kg 12.18.2019 23:18 m,p-Xylenes < 0.00400 0.200 0.184 92 0.163 82 70-135 12 35 mg/kg 12.18.2019 23:18 < 0.00200 0.100 0.0934 93 0.0827 71-133 12 35 o-Xylene 83 mg/kg

MB MB LCS LCS LCSD Limits Units LCSD Analysis Surrogate %Rec Flag %Rec Flag Flag Date %Rec 12.18.2019 23:18 1,4-Difluorobenzene 101 102 100 70-130 % 70-130 % 12.18.2019 23:18 4-Bromofluorobenzene 109 116 113

Analytical Method: BTEX by EPA 8021B

Seq Number: 3111013

646903-006 Parent Sample Id:

Matrix: Soil

MS Sample Id: 646903-006 S

SW5030B Prep Method: Date Prep:

12.18.2019

MSD Sample Id: 646903-006 SD

RPD Parent Spike MS MS MSD **MSD** Limits %RPD Units Analysis Flag **Parameter** Limit Date Result Amount Result %Rec %Rec Result 12.18.2019 23:37 < 0.00202 0.101 0.0768 76 0.0766 77 70-130 0 35 Benzene mg/kg 12.18.2019 23:37 78 73 70-130 7 35 Toluene < 0.00202 0.101 0.07830.0732 mg/kg Ethylbenzene < 0.00202 0.101 0.0759 75 0.0752 75 71-129 1 35 12.18.2019 23:37 mg/kg 75 35 12.18.2019 23:37 m,p-Xylenes < 0.00404 0.202 0.151 0.134 67 70-135 12 mg/kg X < 0.00202 0.101 0.0803 80 0.0797 71-133 35 mg/kg 12.18.2019 23:37 o-Xylene 80

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag Flag %Rec %Rec Date 12.18.2019 23:37 1,4-Difluorobenzene 98 100 70-130 % 12.18.2019 23:37 4-Bromofluorobenzene 109 118 70-130 %

Received by OCD: 1/16/2020 8:22:18 AM of service. Xenco will of Xenco. A minimum Lab Relinquished by: (Signature) Notice: Signature o SAMPLE क्रक BI Total 20 Sample (Circle M Cooler Sample Project Projec Comp Projec San

Received by: (Signature)

12/19/19/10:52 Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 022619 Rev. 2019.1

Chain of Custody

Work Order No: 646937

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad. NM (432) 704-5440

Page 13 of 14	Sample Con hold 3'+ pending Na Sr TI Sn U V Zn 1631 1745 117470 11	Mn Mo Ni K Se Ag SiO2	Depth De	Poper Pope	Time Depth Sampled Sampled Sampled Sampled Depth 1/5 2' 1/9 4/5 2' 3' 1/9 4/5 4' 5' 4' 5' 4' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5'	Date Sampled Sampled	nple Identification 3
d by the lab, if	None: NO HNO3: HN H2S04: H2 HCL: HL NaOH: Na Zn Acetate+ NaOH: Zn TAT starts the day recevied by the lab. if		PH TAL Chlorides	r of Containers	Rush: 24 Due Date: Due Date:	Temp Blank: Yes Yes No NIA Yes No NIA Yes No NIA	PO #: PO #: PO #: RECEIPT Imperature (°C): Received Intact: Custody Seals: Custody Seals:
Codes	Preservative Codes	NEST	ANALYSIS REQU	Pres.	Routine		
	Reporting:Level III PST/UST TRRP Level IV Deliverables: EDD ADaPT Other:	Reporting:Level II Level I	lpe.com/dadkinse	100	Email:	Artesia, vin 882 575. 44/0980	Phone: 5
erfund	Work Order Comments Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project:	Work Program: UST/PST ☐ PRP	Merather oil	Company Name: Address:	Ave.	408 w. Texas	Address:



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE-Artesia

Date/ Time Received: 12/18/2019 05:48:54 PM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 646937

Temperature Measuring device used: T-NM-007

Sample Receipt Ch	ecklist	Comments
#1 *Temperature of cooler(s)?	10.6	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	Additional cooling began in lab
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

Analyst:		PH Device/Lot#:		
	Checklist completed by:	Elizabeth McClellan	Date: <u>12/18/2019</u>	
	Checklist reviewed by:	Jessica Vramer	Date: 12/19/2019	

Jessica Kramer

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 26, 2019

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Mariner CTB OrderNo.: 1912A74

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 30 sample(s) on 12/20/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1912A74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/26/2019

CLIENT: Talon Artesia Lab Order: 1912A74 **Project:** Mariner CTB Lab ID: 1912A74-001 Collection Date: 12/19/2019 Client Sample ID: S1 @6" Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 1700 60 12/20/2019 4:32:19 PM 49465 mg/Kg 20 Lab ID: 1912A74-002 **Collection Date:** 12/19/2019 Client Sample ID: S2 @6" Matrix: SOIL RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 2300 150 50 12/23/2019 10:13:25 AM 49465 mg/Kg **Collection Date:** 12/19/2019 Lab ID: 1912A74-003 Client Sample ID: S3 @6" Matrix: SOIL Result RL Qual Units DF Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 94 60 12/20/2019 5:34:20 PM 49465 mq/Kq Lab ID: 1912A74-004 **Collection Date:** 12/19/2019 Client Sample ID: S4 @6" Matrix: SOIL **Analyses** Result **RL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 1000 60 mg/Kg 12/20/2019 5:46:45 PM 49465 Lab ID: 1912A74-005 **Collection Date:** 12/19/2019 Client Sample ID: S5 @6" Matrix: SOIL RL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA 12/23/2019 10:25:46 AM 49465 Chloride 150 4200 mg/Kg

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

Lab Order: 1912A74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/26/2019

CLIENT: Talon Artesia Lab Order: 1912A74 **Project:** Mariner CTB Lab ID: 1912A74-006 Collection Date: 12/19/2019 Client Sample ID: S6 @6" Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 5000 300 100 12/23/2019 10:38:06 AM 49465 mg/Kg Lab ID: 1912A74-007 **Collection Date:** 12/19/2019 Client Sample ID: Matrix: SOIL RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 2200 60 20 12/20/2019 6:48:45 PM 49465 mg/Kg **Collection Date:** 12/19/2019 Lab ID: 1912A74-008 Client Sample ID: S8 @6" Matrix: SOIL Result RL Qual Units DF Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 4800 150 12/23/2019 10:50:27 AM 49465 mq/Kq Lab ID: **Collection Date:** 12/19/2019 1912A74-009 Client Sample ID: S9 @6" Matrix: SOIL Result **RL Qual Units DF** Date Analyzed **Batch ID Analyses EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 4700 300 mg/Kg 100 12/23/2019 11:02:48 AM 49465 Lab ID: 1912A74-010 **Collection Date:** 12/19/2019 Client Sample ID: S13 @6" Matrix: SOIL Result RL Qual Units DF Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 60 12/20/2019 7:25:59 PM 49465 1700 mg/Kg

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 7

Lab Order: 1912A74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/26/2019

CLIENT: Talon Artesia Lab Order: 1912A74 **Project:** Mariner CTB Lab ID: 1912A74-011 Collection Date: 12/19/2019 Client Sample ID: S14 @6" Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 2000 60 12/20/2019 7:38:23 PM 49465 mg/Kg 20 Lab ID: 1912A74-012 **Collection Date:** 12/19/2019 Client Sample ID: S15 @6" Matrix: SOIL RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 8800 300 100 12/23/2019 11:15:09 AM 49465 mg/Kg **Collection Date:** 12/19/2019 Lab ID: 1912A74-013 Client Sample ID: S17 @6" Matrix: SOIL Result RL Qual Units DF Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 2300 150 12/23/2019 11:52:10 AM 49465 mq/Kq Lab ID: 1912A74-014 **Collection Date:** 12/19/2019 Client Sample ID: S18 @6" Matrix: SOIL Result **RL Qual Units DF** Date Analyzed **Batch ID Analyses EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 3000 150 mg/Kg 12/23/2019 12:04:32 PM 49465 Lab ID: 1912A74-015 **Collection Date:** 12/19/2019 Client Sample ID: S19 @6" Matrix: SOIL RL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 60 12/20/2019 8:28:01 PM 49465 1400 mg/Kg

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 7

Lab Order: 1912A74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/26/2019

	Γalon Artesia Mariner CTB		Lab Order: 1912A74
Lab ID:	1912A74-016		Collection Date: 12/19/2019
Client Sample ID:	S20 @6"		Matrix: SOIL
Analyses		Result	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS		Analyst: MRA
Chloride		1900	60 mg/Kg 20 12/20/2019 9:05:15 PM 49465
Lab ID:	1912A74-017		Collection Date: 12/19/2019
Client Sample ID:	S21 @6"		Matrix: SOIL
Analyses		Result	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	4900	Analyst: MRA 150 mg/Kg 50 12/23/2019 12:16:52 PM 49465
Lab ID:	1912A74-018		Collection Date: 12/19/2019
Client Sample ID:	S22 @6"		Matrix: SOIL
Analyses		Result	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	8800	Analyst: MRA 300 mg/Kg 100 12/23/2019 12:29:12 PM 49465
Lab ID:	1912A74-019		Collection Date: 12/19/2019
Client Sample ID:	S23 @6"		Matrix: SOIL
Analyses		Result	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	D.0: ANIONS	10000	Analyst: MRA 600 mg/Kg 200 12/23/2019 12:41:33 PM 49465
Lab ID:	1912A74-022		Collection Date: 12/19/2019
Client Sample ID:	S26 @6"		Matrix: SOIL
Analyses		Result	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS		Analyst: MRA
Chloride		2600	150 mg/Kg 50 12/23/2019 12:53:54 PM 49465

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: 1912A74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/26/2019

	°alon Artesia ⁄Iariner CTB				L	ab C	rder:	1912 <i>A</i>	A74
Lab ID:	1912A74-023		C	ollecti	on Date	: 12	/19/2019		
Client Sample ID:	S27 @6"				Matrix	: SC	OIL		
Analyses		Result	RL	Qual	Units	DF	Date Anal	lyzed	Batch ID
EPA METHOD 300	.0: ANIONS							Ana	alyst: MRA
Chloride		1900	60		mg/Kg	20	12/22/2019	5:41:06	SPM 49470
Lab ID:	1912A74-024		C	ollecti	on Date	: 12	/19/2019		
Client Sample ID:	S28 @6"				Matrix	: SC	OIL		
Analyses		Result	RL	Qual	Units	DF	Date Anal	lyzed	Batch ID
EPA METHOD 300	.0: ANIONS							Ana	alyst: MRA
Chloride		770	60		mg/Kg	20	12/22/2019	5:53:30	PM 49470
Lab ID:	1912A74-025		C	ollecti	on Date	: 12	/19/2019		
Client Sample ID:	S29 @6"				Matrix	: SC	OIL		
Analyses		Result	RL	Qual	Units	DF	Date Anal	lyzed	Batch ID
EPA METHOD 300	.0: ANIONS							Ana	alyst: MRA
Chloride		180	60		mg/Kg	20	12/22/2019	9 6:05:55	5 PM 49470
Lab ID:	1912A74-026		C	ollecti	on Date	: 12	/19/2019		
Client Sample ID:	S30 @6"				Matrix	: SC	OIL		
Analyses		Result	RL	Qual	Units	DF	Date Anal	lyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	2900	150		mg/Kg	50	12/23/2019		alyst: MRA IPM 49470
Lab ID:	1912A74-027		C	ollecti	on Date	: 12	/19/2019		
Client Sample ID:	S31 @6"				Matrix	: SC	OIL		
Analyses		Result	RL	Qual	Units	DF	Date Anal	lyzed	Batch ID
EPA METHOD 300	.0: ANIONS							Ana	alyst: MRA
Chloride		860	60		mg/Kg	20	12/22/2019	6:30:44	PM 49470

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 7

Lab Order: 1912A74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/26/2019

CLIENT: Talon Artesia Lab Order: 1912A74

Project: Mariner CTB

Lab ID: 1912A74-028 **Collection Date:** 12/19/2019

Client Sample ID: S32 @6" Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: MRA

Chloride 1700 60 mg/Kg 20 12/22/2019 7:07:58 PM 49470

Lab ID: 1912A74-029 **Collection Date:** 12/19/2019

Client Sample ID: S33 @6" Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: MRA

Chloride 1400 60 mg/Kg 20 12/22/2019 7:20:22 PM 49470

Lab ID: 1912A74-030 **Collection Date:** 12/19/2019

Client Sample ID: S16 @6" Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: MRA

Chloride 2300 60 mg/Kg 20 12/22/2019 7:32:47 PM 49470

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **1912A74 26-Dec-19**

Client: Talon Artesia
Project: Mariner CTB

Sample ID: MB-49465 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49465 RunNo: 65334

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-49465 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 49465 RunNo: 65334

Prep Date: 12/20/2019 Analysis Date: 12/20/2019 SeqNo: 2244400 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.8 90 110

Sample ID: MB-49470 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49470 RunNo: 65348

Prep Date: 12/22/2019 Analysis Date: 12/22/2019 SeqNo: 2244792 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-49470 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 49470 RunNo: 65348

Prep Date: 12/22/2019 Analysis Date: 12/22/2019 SeqNo: 2244793 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.1 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

ANALYSIS

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Client Name:	TALON ARTESIA	Work Order Num	ber: 1912A74		RcptNo: 1
Received By:	Leah Baca	12/20/2019 9:15:00) AM	Last Stace	
Completed By:	Leah Baca	12/20/2019 9:44:02	2 AM	Look Baca	
Reviewed By:	10	12/20/19		Lawys	
Chain of Cus	<u>tody</u>				
1. Is Chain of Cu	ustody sufficiently compl	ete?	Yes 🗸	No 🗌	Not Present
2. How was the	sample delivered?		Courier		
Log In					
	pt made to cool the sam	ples?	Yes 🗸	No 🗆	NA 🗆
4. Were all samp	oles received at a temper	rature of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆
5. Sample(s) in p	proper container(s)?		Yes 🗸	No 🗆	
6. Sufficient sam	ple volume for indicated	test(s)?	Yes 🗸	No 🗆	
7. Are samples (e	except VOA and ONG) p	roperly preserved?	Yes 🗸	No 🗌	
B. Was preservat	tive added to bottles?		Yes	No 🗹	NA 🗆
9. Received at lea	ast 1 vial with headspace	e <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹
0. Were any sam	nple containers received	broken?	Yes	No 🗸	# of preserved
					bottles checked
	ork match bottle labels? Incies on chain of custoo	h.A	Yes 🗸	No 📙	for pH: (<2 or >12 unless noted)
	correctly identified on Cha		Yes 🗸	No 🗌	Adjusted?
	analyses were requeste		Yes 🗸	No 🗆	
4. Were all holding	ng times able to be met?		Yes 🗸	No 🗆	Checked by: ENM12/2
	ing (if applicable)				
15. Was client not	tified of all discrepancies	with this order?	Yes 🗌	No 🗆	NA 🗹
Person I	Notified:	Date			
By Who	m:	Via:		Phone Fax	☐ In Person
Regardi	ng:				
Client In	structions:				
16. Additional ren	marks:				
 Cooler Information Cooler No 	mation Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By	
1	2.9 Good	. Jour milact Jear NO	Geal Date	Signed by	

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			Project Name:	e:))			
Mailing Address:	S:					4	www.n	w social	W.IIa	Albug	nimer	www.naiienvironmentai.com	00	D: 1/
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email or Fax#:			Project Manager:	ager:		-		-		†O		(tr		8:22
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Accreditation:	□ Az Cc	□ Az Compliance	Sampler:						170	² ON				_
□ NELAC	□ Other		On Ice:	☑ Yes	□ No				_	1 "	AC	1-6		
□ EDD (Type)			# of Coolers: ((9)				-	_					
i i			Cooler Temp(including CF):	W	0-6,5-2,9 (°C)			VIV				200		
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	HALL ENVIRONMENTAL ANALYSIS LABORATOR	www.hallenvironmental.com	4901 Hawkins NF - Albiranerane NM 87109		Analysis	(1)	SMIS) 2703 3, 5,	1.4(1) 18.11 NO	\O\ 90°3° 91°2°	thoodt 158 159M 100 100 100 100 100 100 100 100 100 10	EDB (Me PAHs by RCRA 8 F, Br 260 (VC 270 (Se otal Col	H H H H H H H H H H H H H H H H H H H		7	1		3					
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Turn-Around	□ Standard	Project Name		Project #:		Project Manager:		Sampler:	On Ice	# of Coolers:	Cooler Temp(including CF).	Container Type and #									Received by:	Monther	Received by:
hain-of-Custody Record			Mailing Address:		Phone #: 575-MUI - 09 80	email or Fax#:	QA/QC Package:	n:	Other	ype)		Date Time Matrix Sample Name	329 Q 64	٦	(\$3) y	\$32 11	1 See 32 ii	3				\$ 550 GOWS	Date: Time: Relinquished by: R



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 13, 2020

Rebecca Pons Talon Artesia 408 West Texas Ave Artesia, NM 88210 TEL: FAX

RE: Mariner Can OrderNo.: 1912B49

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/21/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 26, 2019.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1912B49

Date Reported: 1/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Lab Order: 1912B49

Project: Mariner Can

Lab ID: 1912B49-001 **Collection Date:** 12/20/2019 2:35:00 PM

Client Sample ID: S24 @6" Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: MRA

Chloride 7000 300 mg/Kg 100 12/23/2019 9:36:23 AM 49470

Lab ID: 1912B49-002 **Collection Date:** 12/20/2019 2:45:00 PM

Client Sample ID: S25 @6" Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: MRA

Chloride 3900 150 mg/Kg 50 12/23/2019 9:48:43 AM 49470

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 2

Hall Environmental Analysis Laboratory, Inc.

WO#: **1912B49**

13-Jan-20

Client: Talon Artesia
Project: Mariner Can

Sample ID: MB-49470 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49470 RunNo: 65348

Prep Date: 12/22/2019 Analysis Date: 12/22/2019 SeqNo: 2244792 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-49470 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 49470 RunNo: 65348

Prep Date: 12/22/2019 Analysis Date: 12/22/2019 SeqNo: 2244793 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.1 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: TALON ARTESIA Work Or	der Number: 1912B49		RcptNo: 1
Received By: Yazmine Garduno 12/21/2019	9 9:30:00 AM	nyloguin (djedus)	
Completed By: Yazmine Garduno 12/21/2019	9 10:12:49 AM	Magnin Colombia	n .
Reviewed By: MA 12/21/19			
Chain of Custody			
1. Is Chain of Custody sufficiently complete?	Yes 🔽	No 🗆	Not Present
2. How was the sample delivered?	Courier		
Log In			
3. Was an attempt made to cool the samples?	Yes 🗸	No 🗆	NA 🗆
4. Were all samples received at a temperature of >0° C to 6	3.0°C Yes ✓	No 🗌	NA 🗆
5. Sample(s) in proper container(s)?	Yes 🗸	No 🗌	
 Sufficient sample volume for indicated test(s)? 	Yes 🗸	No 🗆	
7. Are samples (except VOA and ONG) properly preserved?	Yes 🗸	No 🗆	
Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗆
9. Received at least 1 vial with headspace <1/4" for AQ VOA	? Yes 🗌	No 🗌	NA ☑ j
Were any sample containers received broken?	Yes 🗆	No 🗸	
			# of preserved bottles checked
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 	Yes 🗹	No 🗆	for pH: (<2 dr >12 unless noted)
2. Are matrices correctly identified on Chain of Custody?	Yes 🗸	No 🗆	Adjusted?
3. Is it clear what analyses were requested?	Yes 🗹	No 🗆	14001
 Were all holding times able to be met? (If no, notify customer for authorization.) 	Yes 🗸	No 🗆	Checked by: YG 12 11
pecial Handling (if applicable)			
5. Was client notified of all discrepancies with this order?	Yes	No 🗆	NA 🗹
Person Notified:	Date		
By Whom:	Via: 🗌 eMail 🔲 P	hone Fax	☐ In Person
Regarding:	THE PROPERTY OF STREET		The state of the s
Client Instructions:			****
6. Additional remarks:	The second secon		
7. Cooler Information			
Cooler No Temp®C Condition Seal Intact Se	eal No Seal Date	Signed By	
1 5.5 Good			

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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report

Responsible party has visually inspected the liner	(y)N
iner remains intact	CYAN
iner had the ability to contain the leak in question:	(V)N
Notes: fanks/seperators pressure washed a	s well.
	s well.
	s well.





